

## SEQUENCE LISTING

<110> ASTRAZENCA AB and DYAX CORP.  
 Christer NORDSTEDT  
 Tom GOLDSCHMIDT  
 Maria HENDERIKX  
 Rene HOET  
 Hendricus HOOGENBOOM  
 Simon HUFTON  
 Christin V. ANDERSSON  
 Johanna LINDQUIST  
 Dan SUNNEMARK  
 Sergy LEONOV

<120> ANTIBODIES

<130> 117-580 / N.90271E GCW

<140> US

<141> 2006-05-15

<150> PCT/EP2004/013426

<151> 2004-11-26

<150> US 60/525,174

<151> 2003-11-28

<160> 527

<170> MS Word

<210> 1

<211> 84

<212> PRT

<213> Homo sapiens

<400> 1

Ala Arg Met Glu Glu Met Gly Ser Arg Thr Arg Asp Arg Leu Asp Glu  
 1 5 10 15

Val Lys Glu Gln Val Ala Glu Val Arg Ala Lys Leu Glu Glu Gln Ala  
 20 25 30

Gln Gln Ile Arg Leu Gln Ala Glu Ala Phe Gln Ala Arg Leu Lys Ser  
 35 40 45

Trp Phe Glu Pro Leu Val Glu Asp Met Gln Arg Gln Trp Ala Gly Leu  
 50 55 60

Val Glu Lys Val Gln Ala Ala Val Gly Thr Ser Ala Ala Pro Val Pro  
 65 70 75 80

Ser Asp Asn His

<210> 2  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 2

Ala Arg Met Glu Glu Met Gly Ser Arg Thr Arg Asp Arg Leu Asp Glu  
1 5 10 15

<210> 3  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 3

Val Lys Glu Gln Val Ala Glu Val Arg Ala Lys Leu Glu Glu Gln Ala  
1 5 10 15

<210> 4  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 4

Gln Gln Ile Arg Leu Gln Ala Glu Ala Phe Gln Ala Arg Leu Lys Ser  
1 5 10 15

<210> 5  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 5

Trp Phe Glu Pro Leu Val Glu Asp Met Gln Arg Gln Trp Ala Gly Leu  
1 5 10 15

<210> 6  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 6

Val Glu Lys Val Gln Ala Ala Val Gly Thr Ser Ala Ala Pro Val Pro  
1 5 10 15

<210> 7  
<211> 16

<212> PRT  
<213> Homo sapiens

<400> 7

Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val  
1 5 10 15

<210> 8  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 8

Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu  
1 5 10 15

<210> 9  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 9

Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp  
1 5 10 15

<210> 10  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 10

Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val  
1 5 10 15

<210> 11  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 11

Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
1 5 10

<210> 12  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 12

Leu Val Glu Asp Met Gln Arg Gln  
1 5

<210> 13

<211> 8

<212> PRT

<213> Homo sapiens

<400> 13

Met Gln Arg Gln Trp Ala Gly Leu  
1 5

<210> 14

<211> 8

<212> PRT

<213> Homo sapiens

<400> 14

Trp Ala Gly Leu Val Glu Lys Val  
1 5

<210> 15

<211> 8

<212> PRT

<213> Homo sapiens

<400> 15

Arg Thr Arg Asp Arg Leu Asp Glu  
1 5

<210> 16

<211> 8

<212> PRT

<213> Homo sapiens

<400> 16

Trp Phe Glu Pro Leu Val Glu Asp  
1 5

<210> 17

<211> 8

<212> PRT

<213> Homo sapiens

<400> 17

Ala Phe Gln Ala Arg Leu Lys Ser  
1 5

<210> 18  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 18

Ala Arg Met Glu Glu Met Gly Ser Arg Thr Arg Asp Arg Leu Asp Glu  
1 5 10 15

Val Lys Glu Gln Val Ala Glu Val  
20

<210> 19  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 19

Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp  
1 5 10 15

Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val  
20 25 30

<210> 20  
<211> 6  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (2)..(3)  
<223> X = any amino acid

<400> 20

Ser Xaa Xaa Leu Asp Tyr  
1 5

<210> 21  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 21

Lys Tyr Ser Met His

1 5

<210> 22  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 22

Gly Ile Tyr Ser Ser Gly Gly Lys Thr Ile Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 23  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 23

Ser Leu Asp Leu Asp Tyr  
1 5

<210> 24  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 24

Met Tyr Met Met Asp  
1 5

<210> 25  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 25

Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 26  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 26

Ser Val Leu Leu Asp Tyr  
1 5

<210> 27

<211> 5

<212> PRT

<213> Homo sapiens

<400> 27

Tyr Tyr Ala Met Gln  
1 5

<210> 28

<211> 17

<212> PRT

<213> Homo sapiens

<400> 28

Ser Leu Tyr Pro Ser Gly Gly Asn Thr Ser Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 29

<211> 19

<212> PRT

<213> Homo sapiens

<400> 29

Gly Arg Gly Asn Tyr Asp Phe Trp Ser Ala Gly Tyr Tyr Tyr Tyr Tyr  
1 5 10 15

Met Asp Val

<210> 30

<211> 11

<212> PRT

<213> Homo sapiens

<400> 30

Arg Ala Ser Gln Arg Ile Arg Lys Asn Leu His  
1 5 10

<210> 31  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 31

Asp Ala Ser Ser Asn Glu Arg  
1 5

<210> 32  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 32

Gln Gln Ser Phe Ser Ser Pro Trp Thr  
1 5

<210> 33  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 33

Arg Thr Ser Gln Asp Ile Arg Asn His Leu Gly  
1 5 10

<210> 34  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 34

Glu Ala Ser Ile Leu Gln Ser  
1 5

<210> 35  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 35

Leu Gln Tyr Asp Ser Phe Pro Tyr Thr  
1 5

<210> 36  
<211> 12

<212> PRT  
<213> Homo sapiens

<400> 36

Arg Ala Ser Gln Ser Ile Gly Ser Arg Tyr Leu Ala  
1 5 10

<210> 37  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 37

Asp Ala Ser Lys Arg Ala Thr  
1 5

<210> 38  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 38

Gln Gln Gly Tyr Asn Trp Pro Pro Trp Thr  
1 5 10

<210> 39  
<211> 115  
<212> PRT  
<213> Homo sapiens

<400> 39

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Lys Tyr  
20 25 30

Ser Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Tyr Ser Ser Gly Gly Lys Thr Ile Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Pro Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ser Leu Asp Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr

100 105 110

Val Ser Ser  
115

<210> 40  
<211> 115  
<212> PRT  
<213> Homo sapiens

<400> 40

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr  
20 25 30

Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ser Val Leu Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr  
100 105 110

Val Ser Ser  
115

<210> 41  
<211> 128  
<212> PRT  
<213> Homo sapiens

<400> 41

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Tyr Tyr  
20 25 30

Ala Met Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Leu Tyr Pro Ser Gly Gly Asn Thr Ser Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Gly Arg Gly Asn Tyr Asp Phe Trp Ser Ala Gly Tyr Tyr Tyr  
 100 105 110  
 Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser  
 115 120 125

<210> 42  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 42

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1 5 10 15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Arg Ile Arg Lys  
 20 25 30  
 Asn Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu  
 35 40 45  
 Ile Tyr Asp Ala Ser Ser Asn Glu Arg Gly Val Pro Ser Arg Phe Ser  
 50 55 60  
 Gly Arg Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65 70 75 80  
 Pro Glu Asp Leu Ala Thr Tyr Tyr Cys Gln Gln Ser Phe Ser Ser Pro  
 85 90 95  
 Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
 100 105

<210> 43  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 43

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1 5 10 15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Asp Ile Arg Asn  
 20 25 30  
 His Leu Gly Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu

35                      40                      45  
 Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Tyr  
     50                      55                      60  
 Gly Ser Gly Tyr Gly Arg Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
     65                      70                      75                      80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asp Ser Phe Pro  
                     85                      90                      95  
 Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
                     100                      105

<210> 44  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 44

Gln Asp Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro  
     1                      5                      10                      15  
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Gly Ser  
                     20                      25                      30  
 Arg Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu  
                     35                      40                      45  
 Leu Ile Tyr Asp Ala Ser Lys Arg Ala Thr Gly Val Pro Val Arg Phe  
                     50                      55                      60  
 Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu  
     65                      70                      75                      80  
 Gly Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Gly Tyr Asn Trp  
                     85                      90                      95  
 Pro Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
                     100                      105                      110

<210> 45  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 45

Phe Tyr Gly Met Val  
     1                      5

<210> 46  
 <211> 17

<212> PRT  
<213> Homo sapiens

<400> 46

Ser Ile Ser Pro Ser Gly Gly Tyr Thr Leu Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 47  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 47

Asp Gly Arg Arg Pro His Tyr Gly Ser Gly Arg Trp Ala Tyr  
1 5 10

<210> 48  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 48

Arg Tyr Leu Met Met  
1 5

<210> 49  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 49

Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 50  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 50

Ser Ile Ala Ala Ala Gly Thr Asp Tyr  
1 5

<210> 51  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 51

Asn Tyr Phe Met Ile  
1 5

<210> 52  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 52

Trp Ile Ser Pro Ser Gly Gly Thr Thr Gln Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 53  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 53

Glu Ala Gly Tyr  
1

<210> 54  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 54

Ala Tyr Tyr Met Gly  
1 5

<210> 55  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 55

Val Ile Arg Pro Ser Gly Gly Lys Thr Lys Tyr Ala Asp Ser Val Lys

1 5 10 15

Gly

<210> 56  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 56

Gly Pro His Gly Gln Gly Gly Val Asp Ser  
1 5 10

<210> 57  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 57

Glu Tyr Phe Met Thr  
1 5

<210> 58  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 58

Ser Ile Arg Pro Ser Gly Gly Lys Thr Arg Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 59  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 59

Val Ser Arg Tyr Tyr Asn Asn Gly Ala Tyr Arg Leu Asp Ala Phe Asp  
1 5 10 15

Ile

<210> 60

<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 60

Ala Tyr Arg Met Ala  
1 5

<210> 61  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 61

Tyr Ile Ser Ser Ser Gly Gly Val Thr Ser Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 62  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 62

Gly Thr His Leu Pro Gly Val Asp Tyr  
1 5

<210> 63  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 63

Gly Tyr Ile Met Ala  
1 5

<210> 64  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 64

Gly Ile Gly Ser Ser Gly Gly Leu Thr Ala Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 65  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 65

Glu Ala Gly Tyr  
1

<210> 66  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 66

Ser Tyr Pro Met Val  
1 5

<210> 67  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 67

Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 68  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 68

Glu Gly Ser Ala Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr Tyr Tyr  
1 5 10 15

Tyr Met Asp Val  
20

<210> 69  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 69

Lys Tyr Gln Met Thr  
1 5

<210> 70

<211> 17

<212> PRT

<213> Homo sapiens

<400> 70

Val Ile Ser Ser Ser Gly Gly Asp Thr Ala Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 71

<211> 17

<212> PRT

<213> Homo sapiens

<400> 71

Asp Arg Gly Tyr Cys Ser Gly Asn Thr Cys Tyr Ile Asp Ala Phe Asp  
1 5 10 15

Ile

<210> 72

<211> 5

<212> PRT

<213> Homo sapiens

<400> 72

Pro Tyr Trp Met Phe  
1 5

<210> 73

<211> 17

<212> PRT

<213> Homo sapiens

<400> 73

Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 74  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 74

Val Gly Met Ser Thr Tyr Ala Phe Asp Ile  
1 5 10

<210> 75  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 75

His Tyr Gly Met Ser  
1 5

<210> 76  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 76

Ser Ile Arg Ser Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 77  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 77

Gly Ser Leu Ser Ser Gly Trp Asp Tyr  
1 5

<210> 78  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 78

Asn Tyr Arg Met Glu  
1 5

<210> 79  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 79

Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Gln Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 80  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 80

Gly Leu Tyr Arg  
1

<210> 81  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 81

Trp Tyr Leu Met His  
1 5

<210> 82  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 82

Ser Ile Val Pro Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 83  
<211> 9  
<212> PRT

<213> Homo sapiens

<400> 83

Asp Leu Trp Phe Gly Glu Trp Asp Tyr  
1 5

<210> 84

<211> 5

<212> PRT

<213> Homo sapiens

<400> 84

Trp Tyr Ser Met Val  
1 5

<210> 85

<211> 17

<212> PRT

<213> Homo sapiens

<400> 85

Ser Ile Gly Pro Ser Gly Gly Met Thr Arg Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 86

<211> 13

<212> PRT

<213> Homo sapiens

<400> 86

Asp Gln Gly Ile Thr Met Val Gln Gly Ala Met Gly Tyr  
1 5 10

<210> 87

<211> 5

<212> PRT

<213> Homo sapiens

<400> 87

Val Tyr Ser Met Ala  
1 5

<210> 88

<211> 17

<212> PRT  
<213> Homo sapiens

<400> 88

Gly Ile Trp Pro Ser Gly Gly Pro Thr Ala Tyr Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 89  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 89

Glu Asp Phe Trp Ser Gly Leu Glu Asp Val  
1 5 10

<210> 90  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 90

Ser Gly Ser Ser Ser Asn Ile Gly Ser Glu Tyr Val Tyr  
1 5 10

<210> 91  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 91

Arg Asn Asp Gln Arg Pro Ser  
1 5

<210> 92  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 92

Ala Ala Trp Asp Asp Ser Leu Pro Gly Trp Cys  
1 5 10

<210> 93

<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 93

Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn  
1 5 10

<210> 94  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 94

Asn Asn Asn Gln Arg Pro Ser  
1 5

<210> 95  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 95

Ala Ala Trp His Asp Gly Leu Asn Gly Pro Val  
1 5 10

<210> 96  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 96

Lys Ala Ser Gln Ser Val Arg Ala Phe Ile Ala  
1 5 10

<210> 97  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 97

Gly Ala Ser Asn Arg Ala Thr  
1 5

<210> 98  
<211> 9  
<212> PRT

<213> Homo sapiens

<400> 98

Gln Gln Tyr Gly Ser Ser Arg Tyr Thr  
1 5

<210> 99

<211> 16

<212> PRT

<213> Homo sapiens

<400> 99

Arg Ser Ser Gln Ser Leu Leu His Ser Ser Gly Tyr Asn Tyr Leu Asp  
1 5 10 15

<210> 100

<211> 7

<212> PRT

<213> Homo sapiens

<400> 100

Leu Gly Ser Asn Arg Ala Ser  
1 5

<210> 101

<211> 8

<212> PRT

<213> Homo sapiens

<400> 101

Met Gln Ala Leu Gln Thr Pro Thr  
1 5

<210> 102

<211> 11

<212> PRT

<213> Homo sapiens

<400> 102

Arg Ala Ser Gln Ser Val Ser Ser Asn Leu Ala  
1 5 10

<210> 103

<211> 7

<212> PRT

<213> Homo sapiens

<400> 103

Gly Ala Ser Thr Arg Ala Thr  
1 5

<210> 104

<211> 9

<212> PRT

<213> Homo sapiens

<400> 104

Gln Gln Tyr Ala Gly His Pro Ile Thr  
1 5

<210> 105

<211> 8

<212> PRT

<213> Homo sapiens

<400> 105

Thr Gly Ala Thr Arg Asp Val Ser  
1 5

<210> 106

<211> 8

<212> PRT

<213> Homo sapiens

<400> 106

Tyr Glu Val Ser Ser Arg Pro Ser  
1 5

<210> 107

<211> 11

<212> PRT

<213> Homo sapiens

<400> 107

Ser Ser Thr Thr Ser Arg Ala Pro Arg Val Val  
1 5 10

<210> 108

<211> 16

<212> PRT

<213> Homo sapiens

<400> 108

Arg Ser Ser Gln Ser Leu Met His Arg Asn Gly His His Phe Phe Asp  
 1 5 10 15

<210> 109  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 109

Trp Ala Ser Asn Arg Ala Pro  
 1 5

<210> 110  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 110

Met Gln Ala Leu Gln Thr Pro Tyr Thr  
 1 5

<210> 111  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 111

Gln Ala Ser Gln Asn Ile Asp Asn Tyr Leu Asn  
 1 5 10

<210> 112  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 112

Ala Ala Ser Ser Leu Gln Ser  
 1 5

<210> 113  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 113

Gln Gln Ser Tyr Ser Thr Pro Arg Thr  
 1 5

<210> 114  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 114

Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Tyr Val Tyr  
1 5 10

<210> 115  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 115

Arg Asn Asn Gln Arg Pro Ser  
1 5

<210> 116  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 116

Ala Ala Trp Asp Asp Ser Leu Asn Ala Trp Val  
1 5 10

<210> 117  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 117

Lys Ser Ser Gln Ser Leu Leu His Ser Asn Gly Tyr Asn Tyr Leu Asp  
1 5 10 15

<210> 118  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 118

Leu Gly Ser Asn Arg Ala Ser  
1 5

<210> 119  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 119

Met Gln Ala Leu Gln Thr Ile Thr  
1 5 ,

<210> 120  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 120

Arg Ala Ser Gln Ser Ile Ser Arg Trp Leu Ala  
1 5 10

<210> 121  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 121

Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 122  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 122

Gln Gln Ser Tyr Ser Thr Pro Leu Thr  
1 5

<210> 123  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 123

Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala Ser  
1 5 10

<210> 124  
<211> 7

<212> PRT  
<213> Homo sapiens

<400> 124

Gln Asp Arg Lys Arg Pro Ser  
1 5

<210> 125  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 125

Gln Ser Trp Asp Ser Ser Ser Val Ile  
1 5

<210> 126  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 126

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn  
1 5 10

<210> 127  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 127

Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 128  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 128

Gln Gln Ala Asn Ser Phe Pro Leu Thr  
1 5

<210> 129  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 129

Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
1 5 10

<210> 130

<211> 7

<212> PRT

<213> Homo sapiens

<400> 130

Glu Val Asn Lys Arg Pro Ser  
1 5

<210> 131

<211> 10

<212> PRT

<213> Homo sapiens

<400> 131

Ser Ser Tyr Ala Gly Arg Asn Phe Val Val  
1 5 10

<210> 132

<211> 11

<212> PRT

<213> Homo sapiens

<400> 132

Gly Gly Asn Asn Ile Gly Thr Lys Ile Val Asn  
1 5 10

<210> 133

<211> 7

<212> PRT

<213> Homo sapiens

<400> 133

Asp Asn Ser Asp Arg Pro Ser  
1 5

<210> 134

<211> 11

<212> PRT

<213> Homo sapiens

<400> 134

Gln Leu Trp Asp Ser Ser Ser Asp His Pro Ile  
1 5 10

<210> 135  
<211> 123  
<212> PRT  
<213> Homo sapiens

<400> 135

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Phe Tyr  
20 25 30

Gly Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Ser Pro Ser Gly Gly Tyr Thr Leu Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Lys Asp Gly Arg Arg Pro His Tyr Gly Ser Gly Arg Trp Ala Tyr  
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
115 120

<210> 136  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 136

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65		70		75		80									
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Val	Arg	Ser	Ile	Ala	Ala	Ala	Gly	Thr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr
			100					105					110		
Leu	Val	Thr	Val	Ser	Ser										
			115												

<210> 137  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 137

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5						10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Asn	Tyr
			20					25					30		
Phe	Met	Ile	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35				40						45			
Ser	Trp	Ile	Ser	Pro	Ser	Gly	Gly	Thr	Thr	Gln	Tyr	Ala	Asp	Ser	Val
	50					55				60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Glu	Ala	Gly	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser
			100					105					110		
Ser															

<210> 138  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<400> 138

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1			5						10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ala	Tyr
			20					25					30		

Tyr Met Gly Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Val Ile Arg Pro Ser Gly Gly Lys Thr Lys Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Gly Pro His Gly Gln Gly Gly Val Asp Ser Trp Gly Gln Gly  
 100 105 110  
 Thr Leu Val Thr Val Ser Ser  
 115

<210> 139  
 <211> 126  
 <212> PRT  
 <213> Homo sapiens

<400> 139

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Glu Tyr  
 20 25 30  
 Phe Met Thr Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Ser Ile Arg Pro Ser Gly Gly Lys Thr Arg Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Val Ser Arg Tyr Tyr Asn Asn Gly Ala Tyr Arg Leu Asp Ala  
 100 105 110  
 Phe Asp Ile Trp Gly Pro Gly Thr Val Val Thr Val Ser Ser  
 115 120 125

<210> 140  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<400> 140

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ala Tyr  
 20 25 30  
 Arg Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Tyr Ile Ser Ser Ser Gly Gly Val Thr Ser Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Lys Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Gly Thr His Leu Pro Gly Val Asp Tyr Trp Gly Gln Gly Thr  
 100 105 110  
 Leu Val Thr Val Ser Ser  
 115

<210> 141  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 141

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Gly Tyr  
 20 25 30  
 Ile Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Gly Ile Gly Ser Ser Gly Gly Leu Thr Ala Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Glu Ala Gly Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
 100 105 110  
 Ser

<210> 142  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 142

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1			5					10						15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Ser	Tyr	
			20					25					30			
Pro	Met	Val	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				
Ser	Gly	Ile	Trp	Ser	Ser	Gly	Gly	Leu	Thr	Tyr	Tyr	Ala	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70					75					80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
			85					90						95		
Ala	Arg	Glu	Gly	Ser	Ala	Gly	Val	Val	Lys	Gly	Pro	Ala	Arg	Tyr	Tyr	
		100						105					110			
Tyr	Tyr	Tyr	Met	Asp	Val	Trp	Gly	Lys	Gly	Thr	Thr	Val	Thr	Val	Ser	
		115					120					125				

Ser

<210> 143  
 <211> 126  
 <212> PRT  
 <213> Homo sapiens

<400> 143

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1			5					10						15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Lys	Tyr	
			20					25					30			
Gln	Met	Thr	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				
Ser	Val	Ile	Ser	Ser	Ser	Gly	Gly	Asp	Thr	Ala	Tyr	Ala	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70					75					80	

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Arg Gly Tyr Cys Ser Gly Asn Thr Cys Tyr Ile Asp Ala  
100 105 110

Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser  
115 120 125

<210> 144  
<211> 119  
<212> PRT  
<213> Homo sapiens

<400> 144

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Gly Met Ser Thr Tyr Ala Phe Asp Ile Trp Gly Gln Gly  
100 105 110

Thr Met Val Thr Val Ser Ser  
115

<210> 145  
<211> 118  
<212> PRT  
<213> Homo sapiens

<400> 145

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Leu Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser His Tyr  
20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35                      40                      45  
 Ser Ser Ile Arg Ser Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val  
 50                      55                      60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65                      70                      75                      80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85                      90                      95  
 Ala Lys Gly Ser Leu Ser Ser Gly Trp Asp Tyr Trp Gly Gln Gly Thr  
 100                      105                      110  
 Leu Val Thr Val Ser Ser  
 115

<210> 146  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 146

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1                      5                      10                      15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Tyr  
 20                      25                      30  
 Arg Met Glu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35                      40                      45  
 Ser Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Glu Ala Asp Ser Val  
 50                      55                      60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65                      70                      75                      80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85                      90                      95  
 Ala Arg Gly Leu Tyr Arg Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
 100                      105                      110  
 Ser

<210> 147  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<400> 147

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr  
 20 25 30  
 Leu Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Ser Ile Val Pro Ser Gly Gly Thr Thr Val Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Asp Leu Trp Phe Gly Glu Trp Asp Tyr Trp Gly Gln Gly Thr  
 100 105 110  
 Leu Val Thr Val Ser Ser  
 115

<210> 148  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 148

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Tyr  
 20 25 30  
 Ser Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Ser Ile Gly Pro Ser Gly Gly Met Thr Arg Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Asp Gln Gly Ile Thr Met Val Gln Gly Ala Met Gly Tyr Trp  
 100 105 110  
 Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120



Pro Gly Trp Cys Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 151  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 151

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15  
Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
20 25 30  
Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45  
Ile Tyr Asn Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60  
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80  
Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp His Asp Gly Leu  
85 90 95  
Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 152  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 152

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro  
1 5 10 15  
Gly Glu Arg Ala Thr Leu Ser Cys Lys Ala Ser Gln Ser Val Arg Ala  
20 25 30  
Phe Ile Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
35 40 45  
Ile Ser Gly Ala Ser Asn Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
50 55 60  
Gly Gly Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu  
65 70 75 80  
Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Arg  
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 153  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 153

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Pro Val Thr Pro  
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
 20 25 30

Ser Ser Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
 85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Asp Ile Lys  
 100 105 110

<210> 154  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 154

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Val Ser Pro  
 1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser  
 20 25 30

Asn Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
 35 40 45

Ile Tyr Gly Ala Ser Thr Arg Ala Thr Gly Val Pro Ala Arg Phe Ser  
 50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Ser Ser Leu Gln  
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ala Gly His Pro

85 90 95

Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105

<210> 155  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 155

Gln Ser Glu Leu Thr Gln Ala Ala Ser Val Ser Gly Ser Pro Gly Gln  
1 5 10 15

Ser Ile Thr Leu Ser Cys Thr Gly Ala Thr Arg Asp Val Ser Trp Tyr  
20 25 30

Gln Gln His Pro Gly Lys Ala Pro Lys Leu Val Leu Tyr Glu Val Ser  
35 40 45

Ser Arg Pro Ser Gly Val Ser Asp Arg Phe Ser Gly Ser Met Ser Gly  
50 55 60

Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala  
65 70 75 80

Asp Tyr Tyr Cys Ser Ser Thr Thr Ser Arg Ala Pro Arg Val Val Phe  
85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 156  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 156

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Met His  
20 25 30

Arg Asn Gly His His Phe Phe Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Trp Ala Ser Asn Arg Ala Pro Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Pro Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile  
100 105 110

Lys

<210> 157  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 157

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Ile  
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Gln Ala Ser Gln Asn Ile Asp Asn  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 158  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 158

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
20 25 30

Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Ala Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 159  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 159

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 160  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 160

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg  
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 161  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 161

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Leu  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 162  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 162

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser

50                      55                      60  
 Gly Ser Gly Ser Gly Thr Glu Phe Ser Leu Ser Ile Ser Ser Leu Gln  
 65                      70                      75                      80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ala Asn Ser Phe Pro  
                     85                      90                      95  
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
                     100                      105

<210> 163  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 163

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln  
 1                      5                      10                      15  
 Ser Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr  
                     20                      25                      30  
 Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Phe  
                     35                      40                      45  
 Met Ile Tyr Glu Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe  
                     50                      55                      60  
 Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu  
 65                      70                      75                      80  
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ala Gly Arg  
                     85                      90                      95  
 Asn Phe Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
                     100                      105                      110

<210> 164  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 164

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln  
 1                      5                      10                      15  
 Thr Ala Arg Ile Thr Cys Gly Gly Asn Asn Ile Gly Thr Lys Ile Val  
                     20                      25                      30  
 Asn Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Val Val Tyr  
                     35                      40                      45

Asp Asn Ser Asp Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Leu Trp Asp Ser Ser Ser Asp His  
85 90 95

Pro Ile Phe Gly Thr Gly Thr Lys Val Thr Val Leu  
100 105

<210> 165

<211> 317

<212> PRT

<213> Homo sapiens

<400> 165

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys  
1 5 10 15

Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu  
20 25 30

Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu  
35 40 45

Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln  
50 55 60

Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala  
65 70 75 80

Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu  
85 90 95

Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser  
100 105 110

Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp  
115 120 125

Val Arg Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu  
130 135 140

Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg  
145 150 155 160

Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg  
165 170 175

Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu  
180 185 190

Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val

195	200	205
Arg Ala Ala Thr Val Gly	Ser Leu Ala Gly Gln	Pro Leu Gln Glu Arg
210	215	220
Ala Gln Ala Trp Gly Glu Arg	Leu Arg Ala Arg Met Glu Glu Met Gly	
225	230	235 240
Ser Arg Thr Arg Asp Arg	Leu Asp Glu Val Lys Glu Gln Val Ala Glu	
	245	250 255
Val Arg Ala Lys Leu Glu Glu Gln	Ala Gln Gln Ile Arg Leu Gln Ala	
	260	265 270
Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu		
	275	280 285
Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala		
	290	295 300
Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His		
305	310	315

<210> 166  
 <211> 317  
 <212> PRT  
 <213> Homo sapiens

<400> 166

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys
1 5 10 15
Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu
20 25 30
Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu
35 40 45
Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln
50 55 60
Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala
65 70 75 80
Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu
85 90 95
Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser
100 105 110
Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp
115 120 125
Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu
130 135 140

Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg  
 145 150 155 160  
 Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg  
 165 170 175  
 Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu  
 180 185 190  
 Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val  
 195 200 205  
 Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg  
 210 215 220  
 Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly  
 225 230 235 240  
 Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu  
 245 250 255  
 Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala  
 260 265 270  
 Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu  
 275 280 285  
 Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala  
 290 295 300  
 Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
 305 310 315

<210> 167  
 <211> 317  
 <212> PRT  
 <213> Homo sapiens

<400> 167

Met Lys Val Leu Trp Ala Ala Leu Leu Val Thr Phe Leu Ala Gly Cys  
 1 5 10 15  
 Gln Ala Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu  
 20 25 30  
 Arg Gln Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu  
 35 40 45  
 Gly Arg Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln  
 50 55 60  
 Val Gln Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala  
 65 70 75 80

Leu Met Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu  
                             85                            90                            95  
 Glu Glu Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser  
                             100                            105                            110  
 Lys Glu Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp  
                             115                            120                            125  
 Val Cys Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu  
                             130                            135                            140  
 Gly Gln Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg  
                             145                            150                            155                            160  
 Lys Leu Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Cys  
                             165                            170                            175  
 Leu Ala Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu  
                             180                            185                            190  
 Ser Ala Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val  
                             195                            200                            205  
 Arg Ala Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg  
                             210                            215                            220  
 Ala Gln Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly  
                             225                            230                            235                            240  
 Ser Arg Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu  
                             245                            250                            255  
 Val Arg Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala  
                             260                            265                            270  
 Glu Ala Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu  
                             275                            280                            285  
 Asp Met Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala  
                             290                            295                            300  
 Val Gly Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
                             305                            310                            315

<210> 168  
 <211> 299  
 <212> PRT  
 <213> Homo sapiens

<400> 168

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln  
 1                            5                            10                            15

Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg

20					25					30							
Phe	Trp	Asp	Tyr	Leu	Arg	Trp	Val	Gln	Thr	Leu	Ser	Glu	Gln	Val	Gln		
35					40					45							
Glu	Glu	Leu	Leu	Ser	Ser	Gln	Val	Thr	Gln	Glu	Leu	Arg	Ala	Leu	Met		
50					55					60							
Asp	Glu	Thr	Met	Lys	Glu	Leu	Lys	Ala	Tyr	Lys	Ser	Glu	Leu	Glu	Glu		
65					70					75					80		
Gln	Leu	Thr	Pro	Val	Ala	Glu	Glu	Thr	Arg	Ala	Arg	Leu	Ser	Lys	Glu		
85					90					95							
Leu	Gln	Ala	Ala	Gln	Ala	Arg	Leu	Gly	Ala	Asp	Met	Glu	Asp	Val	Arg		
100					105					110							
Gly	Arg	Leu	Val	Gln	Tyr	Arg	Gly	Glu	Val	Gln	Ala	Met	Leu	Gly	Gln		
115					120					125							
Ser	Thr	Glu	Glu	Leu	Arg	Val	Arg	Leu	Ala	Ser	His	Leu	Arg	Lys	Leu		
130					135					140							
Arg	Lys	Arg	Leu	Leu	Arg	Asp	Ala	Asp	Asp	Leu	Gln	Lys	Arg	Leu	Ala		
145					150					155					160		
Val	Tyr	Gln	Ala	Gly	Ala	Arg	Glu	Gly	Ala	Glu	Arg	Gly	Leu	Ser	Ala		
165					170					175							
Ile	Arg	Glu	Arg	Leu	Gly	Pro	Leu	Val	Glu	Gln	Gly	Arg	Val	Arg	Ala		
180					185					190							
Ala	Thr	Val	Gly	Ser	Leu	Ala	Gly	Gln	Pro	Leu	Gln	Glu	Arg	Ala	Gln		
195					200					205							
Ala	Trp	Gly	Glu	Arg	Leu	Arg	Ala	Arg	Met	Glu	Glu	Met	Gly	Ser	Arg		
210					215					220							
Thr	Arg	Asp	Arg	Leu	Asp	Glu	Val	Lys	Glu	Gln	Val	Ala	Glu	Val	Arg		
225					230					235					240		
Ala	Lys	Leu	Glu	Glu	Gln	Ala	Gln	Gln	Ile	Arg	Leu	Gln	Ala	Glu	Ala		
245					250					255							
Phe	Gln	Ala	Arg	Leu	Lys	Ser	Trp	Phe	Glu	Pro	Leu	Val	Glu	Asp	Met		
260					265					270							
Gln	Arg	Gln	Trp	Ala	Gly	Leu	Val	Glu	Lys	Val	Gln	Ala	Ala	Val	Gly		
275					280					285							
Thr	Ser	Ala	Ala	Pro	Val	Pro	Ser	Asp	Asn	His							
290					295												

<210> 169  
 <211> 299  
 <212> PRT

<213> Homo sapiens

<400> 169

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln  
1 5 10 15  
Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg  
20 25 30  
Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln Val Gln  
35 40 45  
Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala Leu Met  
50 55 60  
Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu Glu Glu  
65 70 75 80  
Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser Lys Glu  
85 90 95  
Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp Val Cys  
100 105 110  
Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln  
115 120 125  
Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu  
130 135 140  
Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala  
145 150 155 160  
Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala  
165 170 175  
Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala  
180 185 190  
Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln  
195 200 205  
Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg  
210 215 220  
Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg  
225 230 235 240  
Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala  
245 250 255  
Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met  
260 265 270  
Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly  
275 280 285

Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
 290 295

<210> 170  
 <211> 299  
 <212> PRT  
 <213> Homo sapiens

<400> 170

Lys Val Glu Gln Ala Val Glu Thr Glu Pro Glu Pro Glu Leu Arg Gln  
 1 5 10 15  
 Gln Thr Glu Trp Gln Ser Gly Gln Arg Trp Glu Leu Ala Leu Gly Arg  
 20 25 30  
 Phe Trp Asp Tyr Leu Arg Trp Val Gln Thr Leu Ser Glu Gln Val Gln  
 35 40 45  
 Glu Glu Leu Leu Ser Ser Gln Val Thr Gln Glu Leu Arg Ala Leu Met  
 50 55 60  
 Asp Glu Thr Met Lys Glu Leu Lys Ala Tyr Lys Ser Glu Leu Glu Glu  
 65 70 75 80  
 Gln Leu Thr Pro Val Ala Glu Glu Thr Arg Ala Arg Leu Ser Lys Glu  
 85 90 95  
 Leu Gln Ala Ala Gln Ala Arg Leu Gly Ala Asp Met Glu Asp Val Cys  
 100 105 110  
 Gly Arg Leu Val Gln Tyr Arg Gly Glu Val Gln Ala Met Leu Gly Gln  
 115 120 125  
 Ser Thr Glu Glu Leu Arg Val Arg Leu Ala Ser His Leu Arg Lys Leu  
 130 135 140  
 Arg Lys Arg Leu Leu Arg Asp Ala Asp Asp Leu Gln Lys Cys Leu Ala  
 145 150 155 160  
 Val Tyr Gln Ala Gly Ala Arg Glu Gly Ala Glu Arg Gly Leu Ser Ala  
 165 170 175  
 Ile Arg Glu Arg Leu Gly Pro Leu Val Glu Gln Gly Arg Val Arg Ala  
 180 185 190  
 Ala Thr Val Gly Ser Leu Ala Gly Gln Pro Leu Gln Glu Arg Ala Gln  
 195 200 205  
 Ala Trp Gly Glu Arg Leu Arg Ala Arg Met Glu Glu Met Gly Ser Arg  
 210 215 220  
 Thr Arg Asp Arg Leu Asp Glu Val Lys Glu Gln Val Ala Glu Val Arg  
 225 230 235 240

Ala Lys Leu Glu Glu Gln Ala Gln Gln Ile Arg Leu Gln Ala Glu Ala  
245 250 255

Phe Gln Ala Arg Leu Lys Ser Trp Phe Glu Pro Leu Val Glu Asp Met  
260 265 270

Gln Arg Gln Trp Ala Gly Leu Val Glu Lys Val Gln Ala Ala Val Gly  
275 280 285

Thr Ser Ala Ala Pro Val Pro Ser Asp Asn His  
290 295

<210> 171  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 171  
caagacatcc agatgaccca gtctccaggc accctgtctt tgtctccagg ggaaagagcc 60  
accctctcct gcagggccag tcagagtatt ggcagccgct acttagcctg gtaccagcag 120  
aaacctggcc aggcctccag gctcctcatc tatgatgcat ccaagagggc cactggcgctc 180  
ccagtcaggt tcagcggcag tggatctggg acagacttca ctctcaccat cagcagcctg 240  
gggcctgaag attttgagct ttattactgc caacagggct acaactggcc tccgtggacg 300  
ttcgccaag ggaccaaggt ggaaatcaaa 330

<210> 172  
<211> 384  
<212> DNA  
<213> Homo sapiens

<400> 172  
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctggtgggtc tttacgtctt 60  
tcttgcgctg cttccggatt cactttctct tattacgcta tgcagtgggt tcgccaagct 120  
cctggtaaag gtttgagtg ggtttcttct ctctatcctt ctggtggcaa tacttcttat 180  
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggctgc 300  
gggaattacg atttttggag tgcgggctac tactactact acatggacgt ctggggcaaa 360  
gggaccacgg tcaccgtctc aagc 384

<210> 173  
<211> 324  
<212> DNA  
<213> Homo sapiens

<400> 173  
caagacatcc agatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60  
accatcactt gccgggcaag tcagcgcata agaaagaatt tacattggta tcagcagaaa 120  
ccagggaaaag cccctaacct cctgatctat gatgcatcca gtaacgaacg tgggggtccca 180  
tcaaggttca gtggcagagg atctgggaca gaggttcactc tcaccatcag cagtctacaa 240  
cctgaagatc ttgcaactta ctactgtcaa cagagtttca gtagccctg gacgttcggc 300  
caagggacca aggtggaaat caaa 324

<210> 174  
<211> 345  
<212> DNA  
<213> Homo sapiens

<400> 174  
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ctgggtgggtc tttacgtctt 60  
tcttgcgctg cttccggatt cactttctct aagtaactcta tgcattgggt tcgccaaagt 120  
cctggtaaag gtttgagtg ggtttctggt atctattctt ctgggtggcaa gactatttat 180  
gctgactccg ttaaaggctg cttcactatc tctagagaca accctaagaa tactctctac 240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagatcgctt 300  
gatcttgact actggggcca gggaaacctg gtcaccgtct caagc 345

<210> 175  
<211> 324  
<212> DNA  
<213> Homo sapiens

<400> 175  
caagacatcc agatgaccca gtctccatcc tccctgtctg catctgtagg agacagagtc 60  
accatcactt gccggacaag tcaggacatt agaaatcatt taggctgggt tcagcagaaa 120  
ccagggaaaag cccctcagcg cctgattcgt gaagcatcca ttttaciaag tgggggtccca 180  
tcaacatttt acggcagtg atattggaga gaattcactc tcacaatcag cagcctgcag 240  
cctgaggatt ttgcaacctt ttattgtcta caatatgatt ctttcccata cacctttggc 300  
caggggacca agctggagat caaa 324

<210> 176  
<211> 345  
<212> DNA  
<213> Homo sapiens

<400> 176  
gaagttcaat tgtagagtc tggtagcgtt cttgttcagc ctggtggttc ttacgtctt 60  
tcttgcgctg cttccggatt cactttctct atgtacatga tggattgggt tcgccaagct 120  
cctggtaaag gtttggagtg ggtttcttct atctggcctt ctggtggcca gacttggtat 180  
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagatccgtc 300  
ctccttgact actggggcca gggaaccctg gtcaccgtct caagc 345

<210> 177  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 177  
cagtagaat tgactcagcc accctcagtg tctgggaccc ccgggcagag ggtcaccatc 60  
tcttgttctg gaagcagttc caacatcgga agtgagtatg tgtactggtt ccagcagctc 120  
ccaggaacgg ccccagact cctcatctat aggaatgac agcgccctc aggggtccct 180  
gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tggcctccag 240  
tctgaggatg aggctgatta ttactgtgca gcatgggatg acagcctgcc tggttggtgt 300  
tccggcgcg ggaccaagct gaccgtccta 330

<210> 178  
<211> 369  
<212> DNA  
<213> Homo sapiens

<400> 178  
gaagttcaat tgtagagtc tggtagcgtt cttgttcagc ctggtggttc ttacgtctt 60  
tcttgcgctg cttccggatt cactttctct ttttacggta tggtttgggt tcgccaagct 120  
cctggtaaag gtttggagtg ggtttcttct atctctcctt ctggtggcta tactctttat 180  
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gaaagatggg 300  
agacggcccc actatgggtc ggggaggtgg gcctactggg gccagggaac cctggtcacc 360  
gtctcaagc 369

<210> 179  
<211> 330

<212> DNA  
 <213> Homo sapiens

<400> 179  
 cagagcgaat tgactcagcc accctcagcg tctgggaccc ccgggcagag ggtcaccatc 60  
 tcttgttctg gaagcagctc caacatcgga agtaatactg taaactggta ccagcagctc 120  
 ccaggaacgg cccccaaact cctcatctat aataataatc agcggccctc aggggtccct 180  
 gaccgattct ctggctccaa gtctggcacc tcagcctccc tggccatcag tgggctccag 240  
 tctgaggatg aggctgatta ttactgtgca gcatggcatg acggcctgaa tgggtccggtg 300  
 ttcggcggag ggaccaagct gaccgtccta . 330

<210> 180  
 <211> 354  
 <212> DNA  
 <213> Homo sapiens

<400> 180  
 gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctggtgggtc tttacgtctt 60  
 tcttgcgctg cttccggatt cactttctct cgttacctta tgatgtgggt tcgccaaagct 120  
 cctggtaaag gtttgagtg ggtttctgtt atctctcctt ctggtggccg tacttggtat 180  
 gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgt gaggagtata 300  
 gcagcagctg gaactgacta ctggggccag ggaaccctgg tcaccgtctc aagc 354

<210> 181  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens

<400> 181  
 gacatccaga tgaccagtc tccagccacc ctgtctttgt ctccagggga aagagccacc 60  
 ctctcttgta aggccagtca gagtgttcgc gccttcatag cctggtacca gcagaaacct 120  
 ggccaggctc ccaggctcct catctctggt gcatccaaca gggccactgg catcccagac 180  
 aggttcagtg gcggtgggtc tgggacagac ttcactctca ccatcagcag actggagcct 240  
 gaagattttg cagtgtatta ctgtcagcag tacggtagtt cacggtacac ttttggccag 300  
 gggaccaagc tggagatcaa a 321

<210> 182  
 <211> 339

<212> DNA  
 <213> Homo sapiens

<400> 182  
 gaagttcaat tgtttagagtc tgggtggcggc cttgttcagc ctggtgggttc ttacgtctt 60  
 tcttgcgctg cttccggatt cactttctct aattacttta tgatttgggt tcgccaagct 120  
 cctggtaaag gtttggagtg ggtttcttgg atctctcctt ctggtggcac tactcagtat 180  
 gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagcc 300  
 ggctactggg gccaggaac cctggtcacc gtctcaagc 339

<210> 183  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 183  
 gacatccaga tgaccagtc tccatcctcc ctgcccgta cccctggaga gccggcctcc 60  
 atctcctgca ggtctagtca gagcctccta catagtagtg gatacaacta tttggattgg 120  
 tacctgcaga agccaggaca gtctccacaa ctctgattt atttgggttc taatcgggcc 180  
 tccggggctc ctgacagggt cactggcagt ggatcaggca cagattttac actgaaaatc 240  
 agcagagtgg aggctgagga tgttgggggt tattactgca tgcaagctct acaaaccccc 300  
 actttcggcg gagggaccaa ggtggacatc aaa 333

<210> 184  
 <211> 357  
 <212> DNA  
 <213> Homo sapiens

<400> 184  
 gaagttcaat tgtttagagtc tgggtggcggc cttgttcagc ctggtgggttc ttacgtctt 60  
 tcttgcgctg cttccggatt cactttctct gcttactata tgggttgggt tcgccaagct 120  
 cctggtaaag gtttggagtg ggtttctgtt atccgtcctt ctggtggcaa gactaagtat 180  
 gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggcccg 300  
 catggtcagg ggggtgttga ctctggggc caggaaccc tggtcaccgt ctcaagc 357

<210> 185  
 <211> 321

<212> DNA  
 <213> Homo sapiens

<400> 185  
 gacatccaga tgacctcagtc tccagccacc ctgtctgtgt ctccagggga aagagccacc 60  
 ctctcctgta gggccagtcg gagtggttagc agcaacttag cctggtacca gcagaaacct 120  
 ggccaggctc ccaggctcct catctatggt gcattccacca gggccactgg cgtcccagcc 180  
 aggttcagtg gcagtgggtc tgggacagac ttactctctt ccatcagcag cctgcagcct 240  
 gaagactttg caacttatta ctgtcaacag tatgtgtggt accccatcac cttcggccaa 300  
 gggacccgac tggagattaa a 321

<210> 186  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

<400> 186  
 gaagttcaat tgtagagtc tgggtggcgt cttgttcagc ctggtggttc ttacgtctt 60  
 tcttgccgtg cttccggatt cactttctct gagtacttta tgacttgggt tcgccaagct 120  
 cctggtaaag gtttgagtg ggtttcttct atccgtcctt ctggtggcaa gactcgttat 180  
 gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagctt actattgtgc gagagttagt 300  
 cgctactata ataatggtgc ttatcgctt gatgcatttg atatctgggg ccagggaca 360  
 gtggtcaccg tctcaagc 378

<210> 187  
 <211> 315  
 <212> DNA  
 <213> Homo sapiens

<400> 187  
 cagagcgaat tgactcaggc tgcctccgtg tctgggtctc ctggacagtc gatcacctc 60  
 tctgcactg gagccaccag ggacgtctcc tggtagcagc aacaccagg caaggccccc 120  
 aaactcgtcc tttatgaagt cagtagtcgc cctcaggcg tttccgatcg cttctctggc 180  
 tccatgtctg gcaacacggc ctccctgacc atctctggac tccaggctga ggacgaggct 240  
 gattattact gtcctcaac cacaagtcgc gccctcgcg tggttttcgg cggagggacc 300  
 aaactgaccg tctta 315

<210> 188  
 <211> 354  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 188  
 gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctggtgggtc ttacgtctt 60  
 tcttgcgctg cttccggatt cactttctct gcttaccgta tggcttgggt tcgccaaagt 120  
 cctggtaaag gtttggagtg ggtttcttat atctcttctt ctggtggcgt tacttcttat 180  
 gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga agagcttaag ggctgaggac actgcagtct actattgtgc gagaggcacg 300  
 cacctcccgg gggttgacta ctggggccag ggaacctgg tcaccgtctc aagc 354

<210> 189  
 <211> 336  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 189  
 gacatccaga tgaccagtc tccactctcc ctgcccgtca cccctggaga gccggcctcc 60  
 atctcctgca gatctagtca gagcctcatg cataggaatg gacaccactt cttcgattgg 120  
 tacctgcaga agccagggca gtctccacag ctctgatct attgggcttc taatcgggcc 180  
 cccgggggtcc ctgacagggt cagtggcagt ggatcaggca cagactttac actaaaaatc 240  
 agcagagtgg aggctgagga tgttgggatt tattactgca tgcaagctct acaaaccccg 300  
 tacacttttg gccaggggac caagctggag atcaaa 336

<210> 190  
 <211> 339  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 190  
 gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctggtgggtc ttacgtctt 60  
 tcttgcgctg cttccggatt cactttctct gggttacatta tggcttgggt tcgccaaagt 120  
 cctggtaaag gtttggagtg ggtttctggt atcggttctt ctggtggcct tactgcttat 180  
 gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagcc 300  
 ggctactggg gccaggggac cctggtcacc gtctcaagc 339

<210> 191  
 <211> 321  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 191  
 gacatccaga tgacccagtc tccatcctcc ctgtctgcat ctataggaga cagagtcacc 60  
 atctcttgcc aggcgagtc aaacattgac aactatttaa attggtatca gcagaaacca 120  
 gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180  
 aggttcagtg gcagtggtac tgggacagat ttactctca ccatcagcag tctgcaacct 240  
 gaagattttg caacttacta ctgtcaacag agttacagta cccctcgaac gttcggccaa 300  
 gggaccaagg tggaaatcaa a 321

<210> 192  
 <211> 387  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 192  
 gaagttcaat tgtagagtc tgggtggcgg cttgttcagc ctggtgggtc tttacgtctt 60  
 tcttgcgctg cttccggatt cactttctct tcttacccta tggtttgggt tcgccaagct 120  
 cctggtaaag gtttgagtg ggtttctggt atctggtctt ctggtggcct tacttattat 180  
 gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagagggc 300  
 tcggccggag tggttaaagg gccggcccgg tactactact actacatgga cgtctggggc 360  
 aaagggacca cggtcacctg ctcaagc 387

<210> 193  
 <211> 330  
 <212> DNA  
 <213> Homo sapiens  
  
 <400> 193  
 cagagcgaat tgactcagcc accctcagcg tctgggaccc ccgggcagag ggtcaccatc 60  
 tcttgttctg gaagcagctc caacatcgga agtaattatg tatactggta ccagcagctc 120  
 ccaggaacgg ccccaaact cctcatctat aggaataatc agcggccctc aggggtccct 180  
 gaccgattct ctggctcaa gtctggcacc tcagcctccc tggccatcag tgggctccag 240  
 tctgaggatg aggtgatta ttactgtgca gcatgggatg acagcctgaa tgcttgggtg 300  
 ttcggcggag ggaccaagct gaccgtccta 330

<210> 194  
 <211> 378  
 <212> DNA  
 <213> Homo sapiens

<400> 194  
 gaagttcaat tgtttagagtc tgggtggcggc cttgttcagc ctggtgggtc tttacgtctt 60  
 tcttgcgctg cttccggatt cactttctct aagtaccaga tgacttgggt tcgccaagct 120  
 cctggtaaag gtttggagtg ggtttctggt atctcttctt ctggtggcga tactgcttat 180  
 gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagatcgg 300  
 ggttattgta gtggaatac ttgctatatt gatgcttttg atatctgggg ccaagggaca 360  
 atggtcaccg tctcaagc 378

<210> 195  
 <211> 333  
 <212> DNA  
 <213> Homo sapiens

<400> 195  
 gacatccaga tgaccagtc tccactctcc ctgcccgtca cccctggaga gccggcctcc 60  
 atctcctgca agtctagtc gagcctcctg catagtaatg gatacaacta tttagattgg 120  
 tacctgcaga aaccagggca gtctccacag ctctgatct ctttgggttc taatcgggcc 180  
 tccgggggtcc ctgccaggtt cagtggcagt ggctcaggca cagattttac actgaaaatc 240  
 agcagagtgg aggctgagga tgttggagtt tactactgca tgcaagctct acaaactatc 300  
 accttcggcc aagggacacg actggagatt aaa 333

<210> 196  
 <211> 357  
 <212> DNA  
 <213> Homo sapiens

<400> 196  
 gaagttcaat tgtttagagtc tgggtggcggc cttgttcagc ctggtgggtc tttacgtctt 60  
 tcttgcgctg cttccggatt cactttctct ccttactgga tgttttgggt tcgccaagct 120  
 cctggtaaag gtttggagtg ggtttctggt atcgtttctt ctggtggcat gactgggttat 180  
 gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagtgggg 300

atgtccacct atgcttttga tatctggggc caagggacaa tggtcaccgt ctcaagc 357

<210> 197  
<211> 321  
<212> DNA  
<213> Homo sapiens

<400> 197  
gacatccaga tgaccagtc tccttccacc ctgtctgcat ctgtaggaga cagagtcacc 60  
atcacttgcc gggccagtc gagtattagt aggtggttgg cctggtatca gcagaaacca 120  
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180  
aggttcagtg gcagtggatc tgggacagat ttcactctca ccatcagcag tctgcaacct 240  
gaagattttg caacttacta ctgtcaacag agttacagta ccccgctcac tttcggcgga 300  
gggaccaagg tggagatcaa a 321

<210> 198  
<211> 354  
<212> DNA  
<213> Homo sapiens

<400> 198  
gaagttcaat tgtagagtc tgggtggcggc cttgttcagc ttggtggttc tttacgtctt 60  
tcttgcgctg cttccggatt cactttctct cattacggta tgtcttgggt tcgccagct 120  
cctggtaaag gtttgagtg ggtttcttct atccgttctt ctggtggccg tacttggtat 180  
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
ttgcagatga acagcttaag ggctgaggac actgcagttt actattgtgc gaaaggctcc 300  
cttagcagtg gctgggacta ctggggccag ggaaccctgg tcaccgtctc aagc 354

<210> 199  
<211> 318  
<212> DNA  
<213> Homo sapiens

<400> 199  
cagagcgctt tgactcagcc accctcagtg tccgtgtccc ctggacagac agccagcatc 60  
acctgcgctg gagatgaatt gggtaataaa tatgcttctt ggtatcagca gaagccaggc 120  
cagtcccctg tgctggatc ctatcaagat aggaagcggc cctcagggat ccctgagcga 180  
ttctctggct cccactctgg gaacacagcc actctgacca tcagcgggac ccaggctctc 240  
gatgaggctg actattactg tcagtcgtgg gacagcagct ctgtgatatt cggcggcggg 300

accaaggtga ccgtccta 318

<210> 200  
<211> 339  
<212> DNA  
<213> Homo sapiens

<400> 200  
gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctggtgggtc ttacgtctt 60  
tcttgcgctg cttccggatt cactttctct aattaccgta tggagtgggt tcgccaagct 120  
cctggtaaag gtttggagtg ggtttcttct atctggtctt ctggtggcct tactaaggag 180  
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagaggcctg 300  
taccggtggg gccagggaa cctgggtcacc gtctcaagc 339

<210> 201  
<211> 330  
<212> DNA  
<213> Homo sapiens

<400> 201  
cagtagaat tgactcagcc tccctccgcg tccgggtctc ctggacagtc agtcaccatc 60  
tcttgcaactg gaaccagcag tgacgttggg ggttataact atgtctctctg gtaccaacag 120  
catccaggca aagcccccaa attcatgatt tatgaggtca ataagcggcc ctcaggggtc 180  
cctgatcgct tctctggctc caagtctggc aacacggcct cctgaccgt ctctgggctc 240  
caggctgagg atgaggctga ttattactgc agctcatatg caggcaggaa ctttgtggta 300  
ttcggcggag ggaccaagct gaccgtccta 330

<210> 202  
<211> 366  
<212> DNA  
<213> Homo sapiens

<400> 202  
gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctggtgggtc ttacgtctt 60  
tcttgcgctg cttccggatt cactttctct tggtagctta tgggttgggt tcgccaagct 120  
cctggtaaag gtttggagtg ggtttcttct atcggtcctt ctggtggcat gactcggtat 180  
gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagatcaa 300

gggattacta tggttcaggg agctatgggc tactggggcc agggaaacct ggtcaccgtc 360  
tcaagc 366

<210> 203  
<211> 324  
<212> DNA  
<213> Homo sapiens

<400> 203  
cagagcgctt tgactcagcc accctcgggtg tcagtggccc caggacagac ggccaggatt 60  
acctgtgggg gaaacaacat tggtaactaaa attgtaaact ggtaccagca gaggccaggc 120  
caggccccctg tggtggtcgt ctatgataat agcgaccggc cctcagggat ccctgagcga 180  
ttctctggct ccaactctgg gaacacggcc accctgacca tcagcagggt cgaagccggg 240  
gatgaggccg actattactg tcagctgtgg gatagtagta gtgaccatcc gatcttcgga 300  
actgggacca aggtcaccgt ccta 324

<210> 204  
<211> 357  
<212> DNA  
<213> Homo sapiens

<400> 204  
gaagttcaat tgttagagtc tgggtggcggc cttgttcagc ctgggtgggtc tttacgtctt 60  
tcttgcgctg cttccggatt cactttctct gtttactcta tggcttgggt tcgccaaagt 120  
cctggtaaag gtttggagtg ggtttctggt atctggcctt ctgggtggccc tactgcttat 180  
gctgactccg ttaaagggtcg cttcactatc tctagagaca actctaagaa tactctctac 240  
ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaagat 300  
ttttggagtg gtttggagga cgtctggggc aaagggacca cggtcaccgt ctcaagc 357

<210> 205  
<211> 321  
<212> DNA  
<213> Homo sapiens

<400> 205  
gacatccaga tgaccagtc tccatcctcc ctgtctgcat ctgtaggaga cagagtcacc 60  
atcacttgcc gggcaagtca gagcattagc agctatttaa attggatatca gcagaaacca 120  
gggaaagccc ctaagctcct gatctatgct gcatccagtt tgcaaagtgg ggtcccatca 180  
aggttcagtg gcagtggatc tgggacagaa ttctctctct ccatcagcag cctgcagcct 240

gaagattttg caacttacta ttgtcaacag gctaacagtt tccctctcac tttcggcgga 300  
 gggaccaagg tggagatcaa a 321

<210> 206  
 <211> 354  
 <212> DNA  
 <213> Homo sapiens

<400> 206  
 gaagttcaat tgtagagtc tggtagcggt cttgttcagc ctggtggttc tttacgtctt 60  
 tcttgcgctg cttccggatt cactttctct tggtagctta tgcattgggt tcgccaagct 120  
 cctggtaaaag gtttggagtg ggtttcttct atcgttcctt ctggtggcac tactgtttat 180  
 gctgactccg ttaaaggctg cttcactatc tctagagaca actctaagaa tactctctac 240  
 ttgcagatga acagcttaag ggctgaggac actgcagtct actattgtgc gagagaccta 300  
 tggttcgggg agtgggacta ctggggccag ggaaccctgg tcaccgtctc aagc 354

<210> 207  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 207

Gly Val Leu Asp His Tyr  
 1 5

<210> 208  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 208

Gly Ile Leu His Asp Tyr  
 1 5

<210> 209  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 209

Gly Val Leu Leu Asp Lys  
 1 5

<210> 210  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 210

Gly Val Leu Phe Asp Asn  
1 5

<210> 211  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 211

Arg Ala Ser Gln Asn Ile His Thr Trp Leu Ala  
1 5 10

<210> 212  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 212

Arg Ser Ser Gln Ser Leu Ala Ser Ser Asp Gly Asn Met Tyr Leu Asn  
1 5 10 15

<210> 213  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 213

Arg Thr Ser Gln Gly Ile Arg Asn His Leu Gly  
1 5 10

<210> 214  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 214

Arg Ala Ser Gln Thr Ile Ser Arg Tyr Leu Asn  
1 5 10

<210> 215

<211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 215

Arg Ser Ser Arg Asn Leu Leu His Arg Asn Gly Asn Asn Tyr Leu Asp  
 1 5 10 15

<210> 216  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 216

Arg Ala Ser His Gly Ile Asn Gly Tyr Leu Ala  
 1 5 10

<210> 217  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 217

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr  
 100 105 110

Tyr Tyr Tyr Ile Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser

115 120 125

Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro

130 135 140

<210> 218  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 218

Arg Thr Ser Gln Asp Ile Gly Asn His Leu Ala

1 5 10

<210> 219  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 219

Gln Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn

1 5 10

<210> 220  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 220

Arg Ala Ser Gln Asp Ile Tyr Arg Trp Leu Val

1 5 10

<210> 221  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 221

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn

1 5 10

<210> 222  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 222

Arg Ala Ser Gln Asp Ile Arg Ser Tyr Leu Ala  
1 5 10

<210> 223  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 223

Arg Ala Ser Gln Asp Ile Ser Ile His Leu Ala  
1 5 10

<210> 224  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 224

Arg Ala Ser Lys Ser Val Ala Ser Tyr Val Ala  
1 5 10

<210> 225  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 225

Arg Ser Ser Gln Ser Leu Leu His Ser Asn Gly Asn Thr Tyr Leu Asp  
1 5 10 15

<210> 226  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 226

Arg Ala Ser Arg Gly Ile Arg Asn Asn Leu Ala  
1 5 10

<210> 227  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 227

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro

1	5	10	15
Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His	20	25	30
Ser Thr Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln	35	40	45
Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val	50	55	60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys	65	70	75
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln	85	90	95
Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys	100	105	110

<210> 228  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 228

Arg Ala Ser Gln Gly Ile Thr Asn Tyr Leu Ala
1 5 10

<210> 229  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 229

Arg Ala Ser Gln Val Ile Gly Asn Tyr Leu Ala
1 5 10

<210> 230  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 230

Arg Ala Ser Gln Ser Val Lys Met Asn Leu Ala
1 5 10

<210> 231  
 <211> 11  
 <212> PRT

<213> Homo sapiens

<400> 231

Arg Ala Ser Gln Thr Ile Asn Asn Trp Leu Ala  
1 5 10

<210> 232

<211> 11

<212> PRT

<213> Homo sapiens

<400> 232

Arg Ala Ser Gln Asp Ile Glu Asn Tyr Leu Ala  
1 5 10

<210> 233

<211> 11

<212> PRT

<213> Homo sapiens

<400> 233

Arg Ala Ser Gln Asp Ile His Thr Trp Leu Ala  
1 5 10

<210> 234

<211> 11

<212> PRT

<213> Homo sapiens

<400> 234

Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala  
1 5 10

<210> 235

<211> 11

<212> PRT

<213> Homo sapiens

<400> 235

Arg Ala Ser Gln Ser Ile Ser Arg Tyr Leu Ala  
1 5 10

<210> 236

<211> 11

<212> PRT

<213> Homo sapiens

<400> 236

Arg Ala Ser Gln Asp Ile Arg Asn Ala Leu Gly  
1 5 10

<210> 237

<211> 112

<212> PRT

<213> Homo sapiens

<400> 237

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Gly Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
100 105 110

<210> 238

<211> 11

<212> PRT

<213> Homo sapiens

<400> 238

Arg Ala Ser Gln Asp Ile Arg Asn Asp Leu Gly  
1 5 10

<210> 239

<211> 11

<212> PRT

<213> Homo sapiens

<400> 239

Arg Ala Ser Gln Ser Val Asp Ser Trp Leu Ala  
1 5 10

<210> 240  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 240

Gly Ala Ser Ser Leu Gln Ser  
 1 5

<210> 241  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 241

Lys Val Ser Asp Arg Asp Ser  
 1 5

<210> 242  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 242

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser His Arg Ala Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100 105 110

<210> 243  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 243

Ala Thr Ser Thr Leu His Ser  
1 5

<210> 244  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 244

Met Gly Ser Asn Arg Ala Ser  
1 5

<210> 245  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 245

Ala Ala Ser Lys Leu Gln Ser  
1 5

<210> 246  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 246

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Thr Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105 110

<210> 247

<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 247

Gly Ala Ser Thr Val Gln Ser  
1 5

<210> 248  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 248

Ala Ala Ser Ser Leu Gln Asn  
1 5

<210> 249  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 249

Ala Ala Phe Asn Leu Gln Ser  
1 5

<210> 250  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 250

Ala Ala Ser Thr Leu Gln Thr  
1 5

<210> 251  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 251

Asp Ala Ser Asn Arg Ala Thr  
1 5

<210> 252  
<211> 7  
<212> PRT

<213> Homo sapiens

<400> 252

His Ala Ser Thr Leu Gln Ser  
1 5

<210> 253

<211> 7

<212> PRT

<213> Homo sapiens

<400> 253

Gly Ala Tyr Lys Leu Gln Tyr  
1 5

<210> 254

<211> 7

<212> PRT

<213> Homo sapiens

<400> 254

Gly Ala Ser His Leu Gln Ser  
1 5

<210> 255

<211> 7

<212> PRT

<213> Homo sapiens

<400> 255

Gly Ala Ser Ser Arg Ala Thr  
1 5

<210> 256

<211> 7

<212> PRT

<213> Homo sapiens

<400> 256

Lys Thr Ser Asn Leu Gln Ser  
1 5

<210> 257

<211> 7

<212> PRT

<213> Homo sapiens

<400> 257

Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 258

<211> 7

<212> PRT

<213> Homo sapiens

<400> 258

Val Ala Ser Ser Leu Gln Asp  
1 5

<210> 259

<211> 7

<212> PRT

<213> Homo sapiens

<400> 259

Ala Ala Ser Asn Leu Gln Ser  
1 5

<210> 260

<211> 7

<212> PRT

<213> Homo sapiens

<400> 260

Thr Ala Ser Arg Leu Gln Ser  
1 5

<210> 261

<211> 7

<212> PRT

<213> Homo sapiens

<400> 261

Lys Ala Ser Ser Leu Gln Ser  
1 5

<210> 262

<211> 9

<212> PRT

<213> Homo sapiens

<400> 262

Gln Gln Ala Asn Ser Phe Pro Phe Ala  
1 5

<210> 263  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 263

Met Gln Gly Thr His Trp Pro Pro Thr  
1 5

<210> 264  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 264

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser His Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 265  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 265

Leu Gln Tyr Asn Asn Tyr Pro Phe Thr  
1 5

<210> 266  
<211> 8

<212> PRT  
<213> Homo sapiens

<400> 266

Met Gln Ala Leu Gln Ala Trp Thr  
1 5

<210> 267  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 267

Gln Gln Tyr Asp Ser Tyr Pro Phe Thr  
1 5

<210> 268  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 268

Gln Gln Tyr Asp Ala Phe Pro Phe Thr  
1 5

<210> 269  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 269

Gln Gln Tyr Lys Thr Tyr Pro Phe Thr  
1 5

<210> 270  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 270

Gln Gln Ala Asn Ser Phe Pro Trp Thr  
1 5

<210> 271  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 271

Leu Gln Phe Asn Thr Tyr Pro Phe Thr  
1 5

<210> 272

<211> 9

<212> PRT

<213> Homo sapiens

<400> 272

Leu Gln His Asp Ser Tyr Pro Phe Thr  
1 5

<210> 273

<211> 9

<212> PRT

<213> Homo sapiens

<400> 273

Gln Gln Tyr Glu Ser Tyr Pro Phe Thr  
1 5

<210> 274

<211> 8

<212> PRT

<213> Homo sapiens

<400> 274

Gln Gln Tyr Tyr Asn Pro Tyr Thr  
1 5

<210> 275

<211> 9

<212> PRT

<213> Homo sapiens

<400> 275

Leu Gln Pro Glu Thr Tyr Pro Trp Thr  
1 5

<210> 276

<211> 9

<212> PRT

<213> Homo sapiens

<400> 276

Leu Gln Tyr Gln Thr Tyr Pro Phe Thr  
1 5

<210> 277  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 277

Gln Gln Ser Ser Ser Ile Pro Tyr Thr  
1 5

<210> 278  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 278

Gln Gln Tyr Ala Asn Trp Pro Phe His  
1 5

<210> 279  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 279

Gln Gln Tyr Lys Ala Phe Pro Trp Thr  
1 5

<210> 280  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 280

Gln Gln Tyr Ser Ser Tyr Pro Phe Thr  
1 5

<210> 281  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 281

Leu Gln His Asn Thr Tyr Pro Leu Thr

1 5

<210> 282  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 282

Leu Gln His Asn Ser Tyr Pro Leu Thr  
1 5

<210> 283  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 283

Gln Gln Tyr Ala Thr Leu Pro Arg Thr  
1 5

<210> 284  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 284

Leu Gln Tyr Asn Ser Tyr Pro Phe Thr  
1 5

<210> 285  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 285

Leu Gln Gln Lys Asn Tyr Pro Leu Thr  
1 5

<210> 286  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 286

Gln Gln Tyr Lys Ser Phe Pro Phe Thr  
1 5

<210> 287  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 287

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Val	Ser	Ala	Ser	Val
1				5					10					15	
Gly	Asp	Arg	Val	Thr	Ile	Ser	Cys	Arg	Ala	Ser	Gln	Asn	Ile	His	Thr
			20					25					30		
Trp	Leu	Ala	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Glu	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Gly	Ala	Ser	Ser	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75				80	
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ala	Asn	Ser	Phe	Pro
				85					90					95	
Phe	Ala	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys				
			100					105							

<210> 288  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 288

Gln	Asp	Ile	Val	Met	Thr	Gln	Thr	Pro	Pro	Ser	Leu	Pro	Val	Asn	Pro
1				5					10					15	
Gly	Glu	Pro	Ala	Ser	Ile	Ser	Cys	Arg	Ser	Ser	Gln	Ser	Leu	Ala	Ser
			20					25					30		
Ser	Asp	Gly	Asn	Met	Tyr	Leu	Asn	Trp	Phe	His	Gln	Arg	Pro	Gly	Gln
		35					40					45			
Ser	Pro	Arg	Arg	Leu	Ile	Tyr	Lys	Val	Ser	Asp	Arg	Asp	Ser	Gly	Val
	50					55					60				
Pro	Asp	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Lys
65					70					75				80	
Ile	Ser	Arg	Val	Glu	Ala	Glu	Asp	Val	Gly	Val	Tyr	Tyr	Cys	Met	Gln
				85					90					95	
Gly	Thr	His	Trp	Pro	Pro	Thr	Phe	Gly	Pro	Gly	Thr	Lys	Val	Asp	Ile
			100					105					110		

Lys

<210> 289  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 289

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val
1			5						10					15	
Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Thr	Ser	Gln	Gly	Ile	Arg	Asn
			20					25					30		
His	Leu	Gly	Trp	Phe	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Gln	Arg	Leu
		35					40					45			
Ile	Arg	Glu	Ala	Ser	Ile	Leu	Gln	Ser	Gly	Val	Pro	Ser	Thr	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Glu	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Tyr	Asp	Ser	Phe	Pro
			85						90					95	
Tyr	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Leu	Glu	Ile	Lys				
			100					105							

<210> 290  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 290

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Pro	Ser	Leu	Ser	Ala	Ser	Val
1			5						10					15	
Gly	Asp	Arg	Val	Thr	Ile	Ser	Cys	Arg	Ala	Ser	Gln	Thr	Ile	Ser	Arg
			20					25					30		
Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ala	Thr	Ser	Thr	Leu	His	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Pro	Glu	Asp	Ser	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Tyr	Asn	Asn	Tyr	Pro

	85	90	95
Phe Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys			
	100	105	
<210>	291		
<211>	112		
<212>	PRT		
<213>	Homo sapiens		
<400>	291		
Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro			
1	5	10	15
Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Arg Asn Leu Leu His			
	20	25	30
Arg Asn Gly Asn Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln			
	35	40	45
Ser Pro Gln Leu Leu Ile Tyr Met Gly Ser Asn Arg Ala Ser Gly Val			
	50	55	60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys			
65	70	75	80
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln			
	85	90	95
Ala Leu Gln Ala Trp Thr Phe Gly Pro Gly Thr Arg Leu Asp Ile Lys			
	100	105	110

<210> 292  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400>	292
Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Ala Ser Val	
1	5 10 15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser His Gly Ile Asn Gly	
	20 25 30
Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Arg Ala Pro Lys Ser Leu	
	35 40 45
Ile Tyr Ala Ala Ser Lys Leu Gln Ser Gly Val Pro Ser Lys Phe Ser	
	50 55 60
Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Asn Ser Leu Gln	
65	70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asp Ser Tyr Pro  
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys  
100 105

<210> 293  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 293

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
100 105 110

<210> 294  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 294

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser Gln Asp Ile Gly Asn  
20 25 30

His Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu  
35 40 45

Ile Arg Glu Ala Ser Ile Leu Gln Ser Gly Val Pro Ser Thr Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Ser Tyr Tyr Cys Gln Gln Tyr Asp Ala Phe Pro  
85 90 95

Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 295  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 295

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Gln Ala Ser Gln Asp Ile Ser Asn  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Gln Arg Leu  
35 40 45

Ile Tyr Gly Ala Ser Thr Val Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Lys Thr Tyr Pro  
85 90 95

Phe Thr Phe Gly Gln Gly Thr Arg Leu Asp Ile Lys  
100 105

<210> 296  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 296

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Ser Cys Arg Ala Ser Gln Asp Ile Tyr Arg  
20 25 30

Trp Leu Val Trp Tyr Gln Gln Lys Pro Gly Lys Thr Pro Glu Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Asn Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln

65		70		75		80									
Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln	Ala	Asn	Ser	Phe	Pro
			85						90					95	

Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
			100					105			

<210> 297  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 297

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val
1				5					10					15	

Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser	Ser
			20					25					30		

Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu
		35					40					45			

Ile	Tyr	Ala	Ala	Phe	Asn	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				

Gly	Gly	Arg	Ser	Glu	Ala	Asp	Phe	Thr	Leu	Ala	Ile	Thr	Ser	Leu	Gln
65					70					75					80

Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Leu	Gln	Phe	Asn	Thr	Tyr	Pro
			85						90					95	

Phe	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Leu	Lys
			100					105			

<210> 298  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 298

Gln	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Val	Ser	Ala	Ser	Thr
1				5					10					15	

Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Asp	Ile	Arg	Ser
			20					25					30		

Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Asp	Leu	Leu
		35					40					45			

Ile	Tyr	Ala	Ala	Ser	Thr	Leu	Gln	Thr	Gly	Val	Pro	Ser	Arg	Phe	Ser
	50					55					60				

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asp Ser Tyr Pro  
85 90 95

Phe Thr Phe Gly Pro Gly Ser Lys Val Asp Ile Lys  
100 105

<210> 299

<211> 108

<212> PRT

<213> Homo sapiens

<400> 299

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Ser Ile  
20 25 30

His Leu Ala Trp Phe Gln Lys Lys Pro Gly Lys Ala Pro Lys Ser Leu  
35 40 45

Ile Tyr Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Lys Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Glu Ser Tyr Pro  
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Ile Lys  
100 105

<210> 300

<211> 107

<212> PRT

<213> Homo sapiens

<400> 300

Gln Asn Ile Gln Met Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro  
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Lys Ser Val Ala Ser  
20 25 30

Tyr Val Ala Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Arg Leu Leu  
35 40 45

Met Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Ala Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu  
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asn Pro Tyr  
85 90 95

Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 301  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 301

Gln Asp Ile Gln Met Thr Gln Ser Pro Asp Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 302  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 302

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly Ile Arg Asn  
20 25 30

Asn Leu Ala Trp Tyr Gln His His Pro Gly Lys Ala Pro Lys Arg Leu  
35 40 45

Ile Tyr His Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser

50	55	60
Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln		
65	70	75 80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Pro Glu Thr Tyr Pro		
	85	90 95
Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys		
	100	105

<210> 303  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 303

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro		
1	5	10 15
Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His		
	20	25 30
Ser Ser Gly Tyr His Tyr Leu Asp Trp Tyr Val Gln Lys Pro Gly Gln		
	35	40 45
Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val		
	50	55 60
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys		
65	70	75 80
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Ile Tyr Tyr Cys Met Gln		
	85	90 95
Ala Leu Gln Thr Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys		
	100	105 110

<210> 304  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 304

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val		
1	5	10 15
Gly Asp Thr Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Thr Asn		
	20	25 30
Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu		
	35	40 45

Met Tyr Gly Ala Tyr Lys Leu Gln Tyr Gly Val Pro Thr Lys Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Arg Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Gln Thr Tyr Pro  
85 90 95

Phe Thr Phe Gly Pro Gly Thr Lys Val Asp Leu Lys  
100 105

<210> 305  
<211> 108  
<212> PRT  
<213> Homo sapiens  
<400> 305

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Ser Ile Thr Cys Arg Ala Ser Gln Val Ile Gly Asn  
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Lys Arg Leu  
35 40 45

Ile Tyr Gly Ala Ser His Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Ser Ser Ile Pro  
85 90 95

Tyr Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 306  
<211> 108  
<212> PRT  
<213> Homo sapiens  
<400> 306

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Met Ser Pro  
1 5 10 15

Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Lys Met  
20 25 30

Asn Leu Ala Trp Tyr Gln His Lys Leu Gly Gln Ala Pro Arg Leu Leu  
35 40 45

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu  
65 70 75 80

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ala Asn Trp Pro  
85 90 95

Phe His Phe Gly Pro Gly Thr Thr Val Asp Ile Lys  
100 105

<210> 307  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 307

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Asn Asn  
20 25 30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Gln Leu Leu  
35 40 45

Ile Tyr Lys Thr Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Val Asp Asp Phe Ala Thr Tyr His Cys Gln Gln Tyr Lys Ala Phe Pro  
85 90 95

Trp Thr Phe Gly Gln Gly Thr Lys Val Glu Ser Lys  
100 105

<210> 308  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 308

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ala Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Val Thr Cys Arg Ala Ser Gln Asp Ile Glu Asn  
20 25 30

Tyr Leu Ala Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Ser Leu

35                      40                      45  
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Pro Lys Phe Ser  
 50                      55                      60  
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65                      70                      75                      80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Ser Tyr Pro  
 85                      90                      95  
 Phe Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100                      105

<210> 309  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 309

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val  
 1                      5                      10                      15  
 Gly Asp Arg Val Thr Ile Ile Cys Arg Ala Ser Gln Asp Ile His Thr  
 20                      25                      30  
 Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
 35                      40                      45  
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
 50                      55                      60  
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65                      70                      75                      80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Thr Tyr Pro  
 85                      90                      95  
 Leu Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100                      105

<210> 310  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 310

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val  
 1                      5                      10                      15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser  
 20                      25                      30

Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu  
           35                          40                          45  
 Ile Tyr Val Ala Ser Ser Leu Gln Asp Gly Val Pro Ser Arg Phe Ser  
           50                          55                          60  
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
   65                          70                          75                          80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln His Asn Ser Tyr Pro  
                           85                          90                          95  
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
                           100                          105

<210> 311  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 311

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro  
 1                          5                          10                          15  
 Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Arg  
           20                          25                          30  
 Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Phe  
           35                          40                          45  
 Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala Arg Phe Ser  
           50                          55                          60  
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Leu Arg Gly Leu Glu  
   65                          70                          75                          80  
 Pro Glu Asp Ser Ala Val Tyr Phe Cys Gln Gln Tyr Ala Thr Leu Pro  
                           85                          90                          95  
 Arg Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
                           100                          105

<210> 312  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 312

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1                          5                          10                          15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn  
           20                          25                          30

Ala Leu Gly Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Arg Leu  
35 40 45

Ile Tyr Ala Ala Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Tyr Asn Ser Tyr Pro  
85 90 95

Phe Thr Phe Gly Pro Gly Thr Thr Val Asp Ile Lys  
100 105

<210> 313  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 313

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn  
20 25 30

Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 314  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 314

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Met Thr Cys Arg Ala Ser Gln Asp Ile Arg Asn

20                      25                      30  
 Asp Leu Gly Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Lys Arg Leu  
       35                      40                      45  
 Ile Tyr Thr Ala Ser Arg Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
       50                      55                      60  
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln  
  65                      70                      75                      80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Gln Lys Asn Tyr Pro  
                   85                      90                      95  
 Leu Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys  
           100                      105

<210> 315  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 315

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Tyr Val  
 1                      5                      10                      15  
 Gly Asp Arg Val Asn Ile Pro Cys Arg Ala Ser Gln Ser Val Asp Ser  
       20                      25                      30  
 Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
       35                      40                      45  
 Ile Tyr Lys Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
       50                      55                      60  
 Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Ser Val Ser Ser Leu Gln  
  65                      70                      75                      80  
 Pro Asp Asp Phe Val Thr Tyr Tyr Cys Gln Gln Tyr Lys Ser Phe Pro  
                   85                      90                      95  
 Phe Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
           100                      105

<210> 316  
 <211> 128  
 <212> PRT  
 <213> Homo sapiens

<400> 316

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1                      5                      10                      15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr  
 20 25 30  
 Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Gly Val Leu His Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr  
 100 105 110  
 Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro  
 115 120 125

<210> 317  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 317

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Met Tyr  
 20 25 30  
 Met Met Asp Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Ser Ile Trp Pro Ser Gly Gly Gln Thr Trp Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Gly Ile Leu His Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr  
 100 105 110

Val Ser Ser  
 115

<210> 318  
 <211> 115

<212> PRT  
<213> Homo sapiens

<400> 318

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1			5					10						15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Met	Tyr	
		20						25					30			
Met	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				
Ser	Ser	Ile	Trp	Pro	Ser	Gly	Gly	Gln	Thr	Trp	Tyr	Ala	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70					75				80		
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
			85						90					95		
Ala	Arg	Gly	Val	Leu	Leu	Asp	Lys	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	
		100						105					110			
Val	Ser	Ser														
		115														

<210> 319  
<211> 115  
<212> PRT  
<213> Homo sapiens

<400> 319

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly	
1			5					10						15		
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Met	Tyr	
		20						25					30			
Met	Met	Asp	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val	
		35					40					45				
Ser	Ser	Ile	Trp	Pro	Ser	Gly	Gly	Gln	Thr	Trp	Tyr	Ala	Asp	Ser	Val	
	50					55					60					
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr	
65					70					75				80		
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	
			85						90					95		
Ala	Arg	Gly	Val	Leu	Phe	Asp	Asn	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	
		100						105					110			

Val Ser Ser  
115

<210> 320  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 320

Ser Ile Ala Ala Asp Arg Thr Asp Tyr  
1 5

<210> 321  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 321

Ser Ile Ala Ala Ser Arg Thr Asp Tyr  
1 5

<210> 322  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 322

Ser Ile Ala Ser Ala Gly Thr Asp His  
1 5

<210> 323  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 323

Ser Ile Ala Ser Ala Arg Thr Asp Ser  
1 5

<210> 324  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 324

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro

1	5	10	15
Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His			
20	25	30	
Ser Asn Gly Asn Thr Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln			
35	40	45	
Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val			
50	55	60	
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys			
65	70	75	80
Ile Ser Arg Val Glu Ala Gly Asp Val Gly Val Tyr Tyr Cys Met Gln			
85	90	95	
Ala Leu Gln Thr Pro Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys			
100	105	110	

<210> 325  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 325

Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn Thr Val Asn
1 5 10

<210> 326  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 326

Ser Gly Ser Asn Ser Asn Val Gly Thr Lys Thr Val Asn
1 5 10

<210> 327  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 327

Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn Thr Val Asn
1 5 10

<210> 328  
 <211> 13  
 <212> PRT

<213> Homo sapiens

<400> 328

Ser Gly Gly Ser Ser Asn Ile Gly Ser Asn Thr Val Asn  
1 5 10

<210> 329

<211> 13

<212> PRT

<213> Homo sapiens

<400> 329

Ser Gly Ser Ser Ser Asn Ile Gly Ser Lys Thr Val Asn  
1 5 10

<210> 330

<211> 13

<212> PRT

<213> Homo sapiens

<400> 330

Ser Gly Ser Asn Ser Asn Ile Gly Ser Lys Thr Val Asn  
1 5 10

<210> 331

<211> 13

<212> PRT

<213> Homo sapiens

<400> 331

Ser Gly Ser Ser Ser Asn Ile Gly Thr Asn Asn Val Asn  
1 5 10

<210> 332

<211> 112

<212> PRT

<213> Homo sapiens

<400> 332

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100 105 110

<210> 333  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 333

Ser Asn Asn Gln Arg Pro Ser  
 1 5

<210> 334  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 334

Ser Asn Thr Gln Arg Pro Ser  
 1 5

<210> 335  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 335

Ser Asp Asp Gln Arg Pro Ser  
 1 5

<210> 336  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 336

Asn Ser Ser Gln Arg Pro Ser  
 1 5

<210> 337  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 337

Asn Asn Ile Gln Arg Pro Ser  
 1 5

<210> 338  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 338

Met Asn Tyr Glu Arg Pro Ser  
 1 5

<210> 339  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 339

Ser His His Arg Arg Pro Ser  
 1 5

<210> 340  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 340

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
 35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
 85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100 105 110

<210> 341  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 341

Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val  
 1 5 10

<210> 342  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 342

Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Leu  
 1 5 10

<210> 343  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 343

Ala Ala Trp Asp Asp Ser Leu Ser Gly Pro Val  
 1 5 10

<210> 344  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 344

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
 20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
 35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
 50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 345  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 345

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 346  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 346

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 347  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 347

Gln Ser Val Leu Thr Gln Ser Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Val Gly Thr Lys  
20 25 30

Thr Val Asn Trp Tyr Gln Val Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ser Asn Thr Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Arg Val Thr Val Leu  
100 105 110

<210> 348  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 348

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser

50                      55                      60  
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
 65                      70                      75                      80  
 Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
                     85                      90                      95  
 Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
                     100                      105                      110

<210> 349  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 349

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
 1                      5                      10                      15  
 Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
                     20                      25                      30  
 Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
                     35                      40                      45  
 Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
                     50                      55                      60  
 Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
 65                      70                      75                      80  
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
                     85                      90                      95  
 Ala Leu Gln Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
                     100                      105                      110

<210> 350  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 350

Gln Ser Ala Leu Thr Gln Ser Pro Ser Ala Ser Gly Thr Pro Gly Gln  
 1                      5                      10                      15  
 Arg Val Thr Ile Ser Cys Ser Gly Ser Asn Ser Asn Val Gly Thr Lys  
                     20                      25                      30  
 Thr Val Asn Trp Tyr Gln Val Leu Pro Gly Thr Ala Pro Lys Leu Leu  
                     35                      40                      45

Ile	Tyr	Ser	Asn	Thr	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
50						55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
			85						90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Arg	Val	Thr	Val	Leu		
			100					105					110		

<210> 351  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 351

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Glu	Thr	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
50						55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
			85						90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 352  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 352

Gln	Tyr	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			

Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95

Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 353  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 353

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 354  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 354

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
20 25 30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu

	35		40		45
Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser					
50		55		60	
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln					
65		70		75	80
Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu					
	85		90		95
Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu					
	100		105		110

<210> 355  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 355

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln					
1	5		10		15
Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn					
	20		25		30
Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu					
	35		40		45
Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser					
50		55		60	
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln					
65		70		75	80
Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu					
	85		90		95
Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu					
	100		105		110

<210> 356  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 356

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln					
1	5		10		15
Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn					
	20		25		30

Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45  
 Ile Tyr Ser Asp Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Pro Ser  
 50 55 60  
 Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser  
 65 70 75 80  
 Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys  
 85 90 95  
 Ala Ala Trp Asp Asp Ser Leu Asn Gly Pro Val Phe Gly Gly Gly Thr  
 100 105 110  
 Lys Leu Thr Val Leu  
 115

<210> 357  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 357

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
 1 5 10 15  
 Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn  
 20 25 30  
 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45  
 Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 50 55 60  
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
 65 70 75 80  
 Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
 85 90 95  
 Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 358  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 358

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
 1 5 10 15

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Glu Thr Asn  
 20 25 30  
 Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 35 40 45  
 Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 50 55 60  
 Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
 65 70 75 80  
 Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
 85 90 95  
 Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105 110

<210> 359  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 359

Phe Tyr Ser His Ser Ala Gln Tyr Glu Leu Thr Gln Pro Pro Ser Ala  
 1 5 10 15  
 Ala Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Gly Ser  
 20 25 30  
 Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly  
 35 40 45  
 Thr Ala Pro Lys Leu Leu Ile Tyr Asn Ser Ser Gln Arg Pro Ser Gly  
 50 55 60  
 Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu  
 65 70 75 80  
 Ala Ile Ser Gly Leu Gln Ser Gln Asp Glu Ala Asp Tyr Tyr Cys Ala  
 85 90 95  
 Ala Trp Asp Asp Ser Leu Asn Gly Pro Leu Phe Gly Gly Gly Thr Lys  
 100 105 110  
 Leu Thr Val Leu Gly Gln Pro Lys Ala Ala Pro  
 115 120

<210> 360  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 360

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Ser	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Gly	Ser	Lys
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Phe	Pro	Arg	Ala	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	His	Asn	Asn	Ile	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Asp	Asp	Glu	Gly	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
		100						105					110		

<210> 361

<211> 110

<212> PRT

<213> Homo sapiens

<400> 361

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Thr	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Asn	Ser	Asn	Ile	Gly	Ser	Lys
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Met	Asn	Tyr	Glu	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75					80
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Ser	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
		100						105					110		

<210> 362

<211> 110

<212> PRT

<213> Homo sapiens

<400> 362

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
1 5 10 15  
Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn  
20 25 30  
Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45  
Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60  
Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80  
Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95  
Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 363

<211> 110

<212> PRT

<213> Homo sapiens

<400> 363

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ala Gly Thr Pro Gly Gln  
1 5 10 15  
Arg Val Thr Ile Ser Cys Ser Gly Gly Ser Ser Asn Ile Gly Ser Asn  
20 25 30  
Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45  
Ile Tyr Asn Ser Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60  
Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80  
Ser Gln Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95  
Asn Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 364

<211> 112

<212> PRT

<213> Homo sapiens

<400> 364

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15  
Gly Gln Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn  
20 25 30  
Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45  
Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60  
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys  
65 70 75 80  
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95  
Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 365

<211> 112

<212> PRT

<213> Homo sapiens

<400> 365

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15  
Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30  
Arg Asn Gly Tyr Asn Phe Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45  
Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60  
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80  
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95  
Ala Leu Gln Ser Pro Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105 110

<210> 366

<211> 110

<212> PRT

<213> Homo sapiens

<400> 366

Gln Ser Ala Leu Thr Gln Pro Pro Ser Ala Ser Gln Thr Pro Gly Gln  
1 5 10 15  
Thr Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Thr Asn  
20 25 30  
Asn Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu  
35 40 45  
Ile Ser Ser His His Arg Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60  
Ala Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln  
65 70 75 80  
Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu  
85 90 95  
Asn Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105 110

<210> 367

<211> 112

<212> PRT

<213> Homo sapiens

<400> 367

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15  
Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu His  
20 25 30  
Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45  
Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60  
Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80  
Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95  
Ala Leu Gln Ser Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 368

<211> 110

<212> PRT  
 <213> Homo sapiens

<400> 368

Gln	Ser	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Ala	Ser	Gly	Thr	Pro	Gly	Gln
1				5					10					15	
Arg	Val	Thr	Ile	Ser	Cys	Ser	Gly	Ser	Ser	Ser	Asn	Ile	Glu	Thr	Asn
			20					25					30		
Thr	Val	Asn	Trp	Tyr	Gln	Gln	Leu	Pro	Gly	Thr	Ala	Pro	Lys	Leu	Leu
		35					40					45			
Ile	Tyr	Ser	Asn	Asn	Gln	Arg	Pro	Ser	Gly	Val	Pro	Asp	Arg	Phe	Ser
	50					55					60				
Gly	Ser	Lys	Ser	Gly	Thr	Ser	Ala	Ser	Leu	Ala	Ile	Ser	Gly	Leu	Gln
65					70					75				80	
Ser	Glu	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Ala	Ala	Trp	Asp	Asp	Ser	Leu
				85					90					95	
Asn	Gly	Pro	Val	Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu		
			100					105					110		

<210> 369  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 369

Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Gly
1				5					10					15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Ser	Arg	Tyr
			20					25					30		
Leu	Met	Met	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Glu	Trp	Val
		35					40					45			
Ser	Val	Ile	Ser	Pro	Ser	Gly	Gly	Arg	Thr	Trp	Tyr	Ala	Asp	Ser	Val
	50					55					60				
Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp	Asn	Ser	Lys	Asn	Thr	Leu	Tyr
65					70					75				80	
Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85						90					95	
Val	Arg	Ser	Ile	Ala	Ala	Asp	Arg	Thr	Asp	Tyr	Trp	Gly	Gln	Gly	Thr
			100					105					110		
Leu	Val	Thr	Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro
			115				120					125			

Leu Ala Pro  
130

<210> 370  
<211> 131  
<212> PRT  
<213> Homo sapiens

<400> 370

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Val Arg Ser Ile Ala Ser Ala Gly Thr Asp His Trp Gly Gln Gly Thr  
100 105 110

Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
115 120 125

Leu Ala Pro  
130

<210> 371  
<211> 131  
<212> PRT  
<213> Homo sapiens

<400> 371

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
20 25 30

Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val

50                      55                      60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65                      70                      75                      80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                     85                      90                      95  
 Val Arg Ser Ile Ala Ser Ala Arg Thr Asp Ser Trp Gly Gln Gly Thr  
                     100                      105                      110  
 Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
                     115                      120                      125  
 Leu Ala Pro  
                     130

<210> 372  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 372

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1                      5                      10                      15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg Tyr  
                     20                      25                      30  
 Leu Met Met Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
                     35                      40                      45  
 Ser Val Ile Ser Pro Ser Gly Gly Arg Thr Trp Tyr Ala Asp Ser Val  
                     50                      55                      60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65                      70                      75                      80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                     85                      90                      95  
 Val Arg Ser Ile Ala Ala Ser Arg Thr Asp Tyr Trp Gly Gln Gly Thr  
                     100                      105                      110  
 Leu Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro  
                     115                      120                      125  
 Leu Ala Pro  
                     130

<210> 373  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 373

Glu Arg Ser Val Ala Val Phe Lys Ala Arg Pro Arg His Tyr Tyr Tyr  
1 5 10 15

Tyr Met Asp Val  
20

<210> 374

<211> 20

<212> PRT

<213> Homo sapiens

<400> 374

Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr Tyr Tyr  
1 5 10 15

Tyr Ile Asp Val  
20

<210> 375

<211> 20

<212> PRT

<213> Homo sapiens

<400> 375

Glu Gly Ser Ala Arg Val Val Lys Gly Pro Ala Arg Tyr Phe Tyr Tyr  
1 5 10 15

Tyr Met Asp Leu  
20

<210> 376

<211> 20

<212> PRT

<213> Homo sapiens

<400> 376

Glu Gly Ser Ser Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr Tyr Tyr  
1 5 10 15

Tyr Met Asp Ala  
20

<210> 377

<211> 9

<212> PRT

<213> Homo sapiens

<400> 377

Gln Gln Thr Tyr Ser Thr Pro Arg Thr  
1 5

<210> 378

<211> 9

<212> PRT

<213> Homo sapiens

<400> 378

Gln Gln Ser Tyr Ser Thr Pro Arg Thr  
1 5

<210> 379

<211> 9

<212> PRT

<213> Homo sapiens

<400> 379

Gln Gln Ser Asn Ser Ile Pro Arg Thr  
1 5

<210> 380

<211> 9

<212> PRT

<213> Homo sapiens

<400> 380

Gln Gln Ser Tyr Thr Thr Pro Arg Thr  
1 5

<210> 381

<211> 7

<212> PRT

<213> Homo sapiens

<400> 381

Ala Ala Ser Asn Leu Gln Ser  
1 5

<210> 382

<211> 7

<212> PRT

<213> Homo sapiens

<400> 382

Ala Ala Ser Ser Leu Gln Ser  
1 5

<210> 383  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 383

Ala Ala Tyr Thr Leu Gln Ser  
1 5

<210> 384  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 384

Ser Ala Ser Ser Leu Gln Ser  
1 5

<210> 385  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 385

Asp Ala Ser Thr Leu Gln Asn  
1 5

<210> 386  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 386

Ala Ala Ser Thr Leu Gln Ser  
1 5

<210> 387  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 387

Gly Ala Ser Ser Leu Gln Ser  
1 5

<210> 388  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 388

Arg Ala Ser Gln Thr Ile Lys Asn Tyr Leu Asn  
1 5 10

<210> 389  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 389

Arg Ala Ser Gln Ser Ile Ser Ser Tyr Leu Asn  
1 5 10

<210> 390  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 390

Arg Ala Ser Gln Ser Ile Ser Arg Tyr Leu Asn  
1 5 10

<210> 391  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 391

Arg Ala Ser Arg Gly Val Ser Thr Ser Leu Asn  
1 5 10

<210> 392  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 392

Arg Ala Ser Gln Thr Ile Ser Lys Asn Leu Asn  
1 5 10

<210> 393  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 393

Arg Ala Ser Arg Arg Ile Gly Thr Tyr Leu Asn  
 1 5 10

<210> 394  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 394

Arg Ala Ser Gln Ser Ile Arg Ser Tyr Leu Asn  
 1 5 10

<210> 395  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 395

Arg Ala Ser Gln Thr Ile Asn Ser Tyr Leu Asn  
 1 5 10

<210> 396  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 396

Arg Ala Ser Gln Ser Ile Asn Arg Trp Leu Ala  
 1 5 10

<210> 397  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 397

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Glu Arg Ser Val Ala Val Phe Lys Ala Arg Pro Arg His Tyr  
 100 105 110  
 Tyr Tyr Tyr Met Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser  
 115 120 125  
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro  
 130 135 140

<210> 398  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 398

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30  
 Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Asp Gly Ser Ala Arg Val Val Lys Gly Pro Arg Arg Tyr Tyr  
 100 105 110  
 Tyr Tyr Tyr Ile Asp Val Trp Gly Lys Gly Thr Thr Val Thr Val Ser  
 115 120 125  
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro  
 130 135 140

<210> 399  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 399

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30  
 Pro Met Val Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Gly Ile Trp Ser Ser Gly Gly Leu Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Glu Gly Ser Ser Gly Val Val Lys Gly Pro Ala Arg Tyr Tyr  
 100 105 110  
 Tyr Tyr Tyr Met Asp Ala Trp Gly Lys Gly Thr Thr Val Thr Val Ser  
 115 120 125  
 Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro  
 130 135 140

<210> 400  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 400

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Val Ser Val  
 1 5 10 15  
 Gly Asp Arg Val Ile Ile Thr Cys Arg Ala Ser Gln Thr Ile Lys Asn  
 20 25 30  
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
 35 40 45  
 Ile Tyr Ala Ala Ser Asn Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
 50 55 60  
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Thr Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 401  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 401

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 402  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 402

Gln Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Tyr Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Arg Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Ile Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Thr Val Glu Ile Arg  
100 105

<210> 403  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 403

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 404  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 404

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln

65                      70                      75                      80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
                                  85                      90                      95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
                                  100                      105

<210> 405  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 405

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1                      5                      10                      15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
                                  20                      25                      30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
                                  35                      40                      45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
                                  50                      55                      60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65                      70                      75                      80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
                                  85                      90                      95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
                                  100                      105

<210> 406  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 406

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1                      5                      10                      15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Gly Val Ser Thr  
                                  20                      25                      30

Ser Leu Asn Trp Tyr Gln Ile Lys Pro Glu Lys Ala Pro Lys Leu Leu  
                                  35                      40                      45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
                                  50                      55                      60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ala Ile Thr Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Pro Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 407  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 407

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 408  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 408

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Ser Lys  
20 25 30

Asn Leu Asn Trp Tyr Gln Gln Lys Pro Gly Ser Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ser Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Gly Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Glu  
100 105

<210> 409  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 409

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 410  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 410

Gln Asp Ile Gln Met Thr Gln Ser Pro Asp Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser

50		55		60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln				
65		70		75
				80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro				
	85		90	95
Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys				
	100		105	

<210> 411  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 411

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val				
1		5		10
				15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser				
	20		25	30
Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu				
	35		40	45
Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser				
	50		55	60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln				
65		70		75
				80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro				
	85		90	95
Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys				
	100		105	

<210> 412  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 412

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val				
1		5		10
				15
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser				
	20		25	30
Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu				
	35		40	45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 413  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 413

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 414  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 414

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
100 105

<210> 415  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 415

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
35 40 45

Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
50 55 60

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
65 70 75 80

Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
85 90 95

Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
100 105

<210> 416  
<211> 108  
<212> PRT  
<213> Homo sapiens

<400> 416

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
1 5 10 15

Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
20 25 30

Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu

	35		40		45	
Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser						
50		55		60		
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln						
65		70		75		80
Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro						
	85		90		95	
Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys						
100		105				

<210> 417  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 417

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Thr Val						
1	5		10		15	
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Arg Arg Ile Gly Thr						
	20		25		30	
Tyr Leu Asn Trp Tyr Gln Gln Lys Ala Gly Lys Ala Pro Lys Leu Leu						
	35		40		45	
Ile Tyr Asp Ala Ser Thr Leu Gln Asn Gly Val Pro Ser Arg Phe Ser						
50		55		60		
Gly Thr Glu Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln						
65		70		75		80
Pro Glu Asp Val Ala Thr Tyr Phe Cys Gln Gln Ser Tyr Ser Thr Pro						
	85		90		95	
Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys						
100		105				

<210> 418  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 418

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val						
1	5		10		15	
Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Arg Ser						
	20		25		30	

Tyr Leu Asn Trp Phe Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
 35 40 45  
 Ile Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
 50 55 60  
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65 70 75 80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
 85 90 95  
 Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 419  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 419

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1 5 10 15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Ser  
 20 25 30  
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu  
 35 40 45  
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
 50 55 60  
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65 70 75 80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
 85 90 95  
 Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
 100 105

<210> 420  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 420

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val  
 1 5 10 15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Thr Ile Asn Ser

20 25 30  
 Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asp Leu Leu  
 35 40 45  
 Ile Phe Gly Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
 50 55 60  
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Thr Ser Leu Gln  
 65 70 75 80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Thr Thr Pro  
 85 90 95  
 Arg Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
 100 105

<210> 421  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 421

Gln Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val  
 1 5 10 15  
 Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Asn Arg  
 20 25 30  
 Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Asn Leu Leu  
 35 40 45  
 Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser  
 50 55 60  
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln  
 65 70 75 80  
 Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro  
 85 90 95  
 Arg Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
 100 105

<210> 422  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 422

Ala Gly Asp Glu Leu Gly Asn Lys Tyr Ala Ser  
 1 5 10

<210> 423  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 423

Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser Ser  
1 5 10

<210> 424  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 424

Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala Ser  
1 5 10

<210> 425  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 425

Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile Ser  
1 5 10

<210> 426  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 426

Thr Gly Thr Gly Ser Asp Val Gly Arg Tyr Ser His Val Ser  
1 5 10

<210> 427  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 427

Ser Gly Gly Ser Ser Asn Ile Gly Leu Asn Pro Val Asn  
1 5 10

<210> 428

<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 428

Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr Ser  
1 5 10

<210> 429  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 429

Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala Ser  
1 5 10

<210> 430  
<211> 14  
<212> PRT  
<213> Homo sapiens

<400> 430

Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr Asn Arg Val Ser  
1 5 10

<210> 431  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 431

Ser Gly Asp Thr Leu Arg Asn Lys Tyr Ala Ser  
1 5 10

<210> 432  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 432

Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn Thr Val Asn  
1 5 10

<210> 433  
<211> 11  
<212> PRT

<213> Homo sapiens

<400> 433

Ser Gly Asp Lys Leu Arg Asn Lys Tyr Gly Ser  
1 5 10

<210> 434

<211> 7

<212> PRT

<213> Homo sapiens

<400> 434

Gln Asp Arg Lys Arg Pro Ser  
1 5

<210> 435

<211> 7

<212> PRT

<213> Homo sapiens

<400> 435

Gln Asp Lys Lys Arg Pro Ser  
1 5

<210> 436

<211> 7

<212> PRT

<213> Homo sapiens

<400> 436

Ala Val Thr Asn Arg Pro Ser  
1 5

<210> 437

<211> 7

<212> PRT

<213> Homo sapiens

<400> 437

Ser Asn Asn Gln Arg Pro Ser  
1 5

<210> 438

<211> 7

<212> PRT

<213> Homo sapiens

<400> 438

Gln Asn Arg Lys Arg Pro Ser  
1 5

<210> 439

<211> 112

<212> PRT

<213> Homo sapiens

<400> 439

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Arg His  
20 25 30

Asn Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Tyr Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 440

<211> 7

<212> PRT

<213> Homo sapiens

<400> 440

Gln Ser Ser Gln Arg Pro Ser  
1 5

<210> 441

<211> 7

<212> PRT

<213> Homo sapiens

<400> 441

Glu Val Ser Asn Arg Pro Ser  
1 5

<210> 442  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 442

Gln Asp Ile Val Met Thr Gln Thr Pro Pro Ser Leu Pro Val Asn Pro  
 1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Leu Asn  
 20 25 30

Ile Asp Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
 35 40 45

Ser Pro Gln Leu Leu Ile Tyr Phe Gly Ser Asn Arg Ala Ser Gly Val  
 50 55 60

Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Glu Phe Thr Leu Lys  
 65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
 85 90 95

Ala Leu Arg Ala Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100 105 110

<210> 443  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 443

Arg Asn Asn Gln Arg Pro Ser  
 1 5

<210> 444  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 444

Gln Ser Trp Asp Ser Ser Ser Val Ile  
 1 5

<210> 445  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 445

Gln Ala Trp Asp Ser Ser Ser Val Ile  
1 5

<210> 446  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 446

Gln Thr Trp Asp Ser Ser Ser Val Ile  
1 5

<210> 447  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 447

Gln Thr Trp Asp Arg Ser Ser Val Val  
1 5

<210> 448  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 448

Gln Ser Tyr Thr Thr Thr Gly Thr Leu Ile  
1 5 10

<210> 449  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 449

Ser Ser Tyr Thr Asn Ser Ser Val Ile  
1 5

<210> 450  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 450

Gln Ala Trp Asp Asn Ser Ala Val Ile

1 5

<210> 451  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 451

Gln Thr Trp Asp Thr Ser Ile Leu  
1 5

<210> 452  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 452

Ser Ser Tyr Arg Asn Thr Gly Pro Leu  
1 5

<210> 453  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 453

Ser Ile Trp Ser Ser Gly Gly Leu Thr Lys Glu Ala Asp Ser Val Lys  
1 5 10 15

Gly

<210> 454  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 454

Asn Ser Tyr Thr Asn Ser Ala Thr Leu Val  
1 5 10

<210> 455  
<211> 119  
<212> PRT  
<213> Homo sapiens

<400> 455

Phe Tyr Ser His Ser Ala Gln Ser Ala Leu Thr Gln Pro Pro Ser Val  
 1 5 10 15  
 Ser Val Ser Pro Gly Gln Thr Ala Ser Ile Thr Cys Ala Gly Asp Glu  
 20 25 30  
 Leu Gly Asn Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser  
 35 40 45  
 Pro Val Leu Val Ile Tyr Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro  
 50 55 60  
 Glu Arg Phe Ser Gly Ser His Ser Gly Asn Thr Ala Thr Leu Thr Ile  
 65 70 75 80  
 Ser Gly Thr Gln Ala Leu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Trp  
 85 90 95  
 Asp Ser Ser Ser Val Ile Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
 100 105 110  
 Ser Gln Pro Lys Ala Ala Pro  
 115

<210> 456  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 456

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15  
 Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser  
 20 25 30  
 Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45  
 Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60  
 His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 65 70 75 80  
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile  
 85 90 95  
 Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
 100 105

<210> 457  
 <211> 106

<212> PRT  
<213> Homo sapiens

<400> 457

Gln	Ser	Glu	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln	
1				5					10					15		
Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Lys	Leu	Arg	Asn	Lys	Tyr	Ala	
			20					25					30			
Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Val	Leu	Val	Ile	Tyr	
		35					40					45				
Gln	Asp	Arg	Lys	Arg	Pro	Ser	Glu	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser	
	50					55					60					
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met	
65					70				75						80	
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Thr	Trp	Asp	Ser	Ser	Ser	Val	Ile	
			85						90					95		
Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu							
			100					105								

<210> 458  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 458

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln	
1				5					10					15		
Thr	Ala	Ser	Ile	Thr	Cys	Ser	Gly	Asp	Ile	Leu	Gly	Asn	Lys	Tyr	Ser	
			20					25					30			
Ser	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Ile	Tyr	
		35					40					45				
Gln	Asp	Lys	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser	
	50					55					60					
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met	
65					70				75						80	
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Ser	Ser	Ser	Val	Ile	
			85						90					95		
Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu							
			100					105								

<210> 459

<211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 459

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15  
 Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile  
 20 25 30  
 Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
 35 40 45  
 Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60  
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu  
 65 70 75 80  
 Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val  
 85 90 95  
 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105

<210> 460  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<400> 460

Phe Tyr Ser His Ser Ala Gln Ser Glu Leu Thr Gln Pro Pro Ser Val  
 1 5 10 15  
 Ser Val Ser Pro Gly Gln Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys  
 20 25 30  
 Leu Arg Asn Lys Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser  
 35 40 45  
 Pro Val Leu Val Ile Tyr Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro  
 50 55 60  
 Glu Arg Phe Ser Gly Ser His Ser Gly Asn Thr Ala Thr Leu Thr Ile  
 65 70 75 80  
 Ser Gly Thr Gln Ala Met Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp  
 85 90 95  
 Asp Ser Ser Ser Val Ile Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
 100 105 110  
 Gly Gln Pro Lys Ala Ala Pro

115

<210> 461  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 461

Gln	Ser	Glu	Leu	Thr	Gln	Pro	Ala	Ser	Val	Ser	Gly	Ser	Pro	Gly	Gln
1				5					10					15	
Ser	Ile	Thr	Ile	Ser	Cys	Thr	Gly	Thr	Gly	Ser	Asp	Val	Gly	Arg	Tyr
			20					25					30		
Ser	His	Val	Ser	Trp	Tyr	Gln	Gln	His	Pro	Gly	Lys	Ala	Pro	Lys	Leu
		35					40					45			
Ile	Ile	Tyr	Ala	Val	Thr	Asn	Arg	Pro	Ser	Gly	Val	Ser	Ala	Arg	Phe
	50					55					60				
Ser	Gly	Ser	Arg	Ser	Gly	Asn	Thr	Ala	Ser	Leu	Thr	Ile	Ser	Gly	Leu
65					70					75					80
Gln	Ser	Glu	Asp	Glu	Ala	Thr	Tyr	His	Cys	Gln	Ser	Tyr	Thr	Thr	Thr
				85					90					95	
Gly	Thr	Leu	Ile	Phe	Gly	Gly	Gly	Thr	Asn	Leu	Thr	Val			
		100						105							

<210> 462  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 462

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln
1				5					10					15	
Thr	Ala	Ile	Ile	Thr	Cys	Ser	Gly	Asp	Ile	Leu	Gly	Asn	Lys	Tyr	Ser
			20					25					30		
Ser	Trp	Tyr	Gln	Gln	Arg	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Ile	Phe
		35					40					45			
Gln	Asp	Lys	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				
His	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Thr	Gln	Ala	Met
65					70					75					80
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Ser	Ser	Ser	Val	Ile
				85					90					95	

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 463  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 463

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15  
Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile  
20 25 30  
Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45  
Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60  
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu  
65 70 75 80  
Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val  
85 90 95  
Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 464  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 464

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15  
Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile  
20 25 30  
Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45  
Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60  
Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu  
65 70 75 80  
Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105

<210> 465  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<400> 465

Gln Ser Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg  
 1 5 10 15  
 Val Thr Ile Ser Cys Ser Gly Gly Ser Ser Asn Ile Gly Leu Asn Pro  
 20 25 30  
 Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile  
 35 40 45  
 Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly  
 50 55 60  
 Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ala  
 65 70 75 80  
 Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Asn Ser Ser Val  
 85 90 95  
 Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 100 105

<210> 466  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 466

Gln Tyr Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 1 5 10 15  
 Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr  
 20 25 30  
 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr  
 35 40 45  
 Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 50 55 60  
 Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile  
 65 70 75 80  
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile

	85	90	95
Phe Gly Gly Gly Thr Lys Leu Thr Val Leu			
	100	105	
<210>	467		
<211>	106		
<212>	PRT		
<213>	Homo sapiens		
<400>	467		
Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln			
1	5	10	15
Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala			
	20	25	30
Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr			
	35	40	45
Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser			
	50	55	60
His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met			
65	70	75	80
Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile			
	85	90	95
Phe Gly Gly Gly Thr Lys Val Thr Val Leu			
	100	105	

<210> 468  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400>	468		
Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly His			
1	5	10	15
Thr Ala Thr Ile Thr Cys Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala			
	20	25	30
Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Leu Val Leu Tyr			
	35	40	45
Gln Ser Ser Gln Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser			
	50	55	60
Ile Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Ala Gln Ser Ile			
65	70	75	80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Thr Ser Ile Leu Phe  
85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 469  
<211> 109  
<212> PRT  
<213> Homo sapiens

<400> 469

Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr  
20 25 30

Asn Arg Val Ser Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu  
35 40 45

Ile Ile Phe Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe  
50 55 60

Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
65 70 75 80

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Arg Asn Thr  
85 90 95

Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 470  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 470

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser  
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 471  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 471

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asp Lys Leu Gly Ser Lys Tyr Thr  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Val Tyr  
35 40 45

Gln Asn Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 472  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 472

Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Thr Leu Arg Asn Lys Tyr Ala  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Arg Lys Arg Pro Ser Asn Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Val Met

65		70		75		80									
Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Ser	Ser	Ser	Val	Ile
			85						90					95	

Phe	Gly	Gly	Gly	Thr	Lys	Val	Thr	Val	Leu
			100					105	

<210> 473  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 473

Gln	Ser	Ala	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln
1				5					10					15	

Thr	Ala	Thr	Ile	Thr	Cys	Ser	Gly	Asp	Lys	Leu	Gly	Ser	Lys	Tyr	Thr
			20					25					30		

Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Val	Tyr
		35					40					45			

Gln	Asn	Arg	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				

Asn	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Val	Ser	Gly	Thr	Gln	Ala	Ile
65					70					75					80

Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Ala	Trp	Asp	Asn	Ser	Ala	Val	Ile
			85						90					95	

Phe	Gly	Gly	Gly	Thr	Lys	Leu	Thr	Val	Leu
			100					105	

<210> 474  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 474

Gln	Ser	Val	Leu	Thr	Gln	Pro	Pro	Ser	Val	Ser	Val	Ser	Pro	Gly	Gln
1				5					10					15	

Thr	Ala	Thr	Ile	Thr	Cys	Ser	Gly	Asp	Lys	Leu	Gly	Ser	Lys	Tyr	Thr
			20					25					30		

Ser	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ser	Pro	Val	Leu	Val	Val	Tyr
		35					40					45			

Gln	Asn	Arg	Lys	Arg	Pro	Ser	Gly	Ile	Pro	Glu	Arg	Phe	Ser	Gly	Ser
	50					55					60				

Asn Ser Gly Asn Thr Ala Thr Leu Thr Val Ser Gly Thr Gln Ala Ile  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Asn Ser Ala Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 475  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 475

Gln Tyr Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
1 5 10 15

Ser Ile Thr Ile Ser Cys Thr Gly Thr Gly Ser Asp Val Gly Arg Tyr  
20 25 30

Ser His Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
35 40 45

Ile Ile Tyr Ala Val Thr Asn Arg Pro Ser Gly Val Ser Ala Arg Phe  
50 55 60

Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
65 70 75 80

Gln Ser Glu Asp Glu Ala Thr Tyr His Cys Gln Ser Tyr Thr Thr Thr  
85 90 95

Gly Thr Leu Ile Phe Gly Gly Gly Thr Asn Leu Thr Val Leu  
100 105 110

<210> 476  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 476

Gln Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly His  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Gln Ile Leu Gly Glu Arg Ser Ala  
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Val Leu Val Leu Tyr  
35 40 45

Gln Ser Ser Gln Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Ile Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Ala Gln Ser Ile  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Thr Ser Ile Leu Phe  
85 90 95

Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 477  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 477

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 478  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 478

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser  
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser

50	55	60
His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met		
65	70	75 80
Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile		
	85	90 95
Phe Gly Gly Gly Thr Lys Val Thr Val Leu		
	100	105

<210> 479  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 479

Gln Ser Glu Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln		
1	5	10 15
Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr		
	20	25 30
Asn Arg Val Ser Trp Tyr Gln Gln Ser Pro Gly Thr Ala Pro Lys Leu		
	35	40 45
Ile Ile Phe Glu Val Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe		
	50	55 60
Ser Gly Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu		
65	70	75 80
Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Arg Asn Thr		
	85	90 95
Gly Pro Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu		
	100	105

<210> 480  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 480

Gln Ser Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln		
1	5	10 15
Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Gly Asn		
	20	25 30
Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu		
	35	40 45

Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
50 55 60

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
65 70 75 80

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Tyr Thr Asn Ser Ala  
85 90 95

Thr Leu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 481  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 481

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Ile Leu Gly Asn Lys Tyr Ser  
20 25 30

Ser Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Leu Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
100 105

<210> 482  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 482

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Thr Ile Thr Cys Ser Gly Asn Lys Leu Gly Asn Thr Tyr Ile  
20 25 30

Ser Trp Tyr Gln Lys Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Lys Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Thr Gly Thr Gln Ser Leu  
65 70 75 80

Asp Glu Ser Asp Tyr Tyr Cys Gln Thr Trp Asp Arg Ser Ser Val Val  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 483  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 483

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Gly  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr  
35 40 45

Gln Asp Arg Lys Arg Pro Ser Glu Ile Pro Glu Arg Phe Ser Gly Ser  
50 55 60

His Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
65 70 75 80

Asp Glu Ala Asp Tyr Tyr Cys Gln Ala Trp Asp Ser Ser Ser Val Ile  
85 90 95

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
100 105

<210> 484  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 484

Gln Ser Ala Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
1 5 10 15

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala  
20 25 30

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr



<210> 489  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 489

Val Gly Met Tyr Asn Tyr Gly Phe Asp Ile  
 1 5 10

<210> 490  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 490

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
 20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Gly Met Ala Thr Tyr Gly Phe Asp Ile Trp Gly Gln Gly  
 100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
 115 120 125

Pro Leu Ala Pro  
 130

<210> 491  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 491

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
 20 25 30  
 Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Val Gly Met Ser Asn Tyr Gly Phe Asp Phe Trp Gly Gln Gly  
 100 105 110  
 Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
 115 120 125  
 Pro Leu Ala Pro  
 130

<210> 492  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 492

Met Gln Ala Leu Gln Thr Leu Thr  
 1 5

<210> 493  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 493

Met Gln Ala Leu Arg Ala Ile Thr  
 1 5

<210> 494  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 494

Met Gln Ala Leu Gln Ala Ile Thr  
 1 5

<210> 495  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 495

Met Gln Ala Leu Gln Ser Pro Thr  
1 5

<210> 496  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 496

Met Gln Ala Leu Gln Ser Ile Thr  
1 5

<210> 497  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 497

Met Gly Ser Asn Arg Ala Ser  
1 5

<210> 498  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 498

Leu Gly Ser His Arg Ala Ser  
1 5

<210> 499  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 499

Phe Gly Ser Asn Arg Ala Ser  
1 5



<210> 503  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 503

Arg	Ser	Ser	Gln	Ser	Leu	Leu	His	Ser	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp
1				5					10					15	

<210> 504  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 504

Arg	Ser	Ser	Gln	Ser	Leu	Leu	His	Ser	Ser	Gly	Tyr	His	Tyr	Leu	Asp
1				5					10					15	

<210> 505  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 505

Arg	Ser	Ser	Gln	Ser	Leu	Leu	Asn	Ile	Asp	Gly	Tyr	Asn	Tyr	Leu	Asp
1				5					10					15	

<210> 506  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 506

Arg	Ser	Ser	Gln	Ser	Leu	Leu	His	Arg	Asn	Gly	Tyr	Asn	Phe	Leu	Asp
1				5					10					15	

<210> 507  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 507

Arg	Ser	Ser	Gln	Ser	Leu	Arg	His	Asn	Asn	Gly	Tyr	Asn	Tyr	Leu	Asp
1				5					10					15	

<210> 508  
 <211> 112

<212> PRT  
 <213> Homo sapiens  
  
 <400> 508  
  
 Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
 1 5 10 15  
 Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
 20 25 30  
 Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
 35 40 45  
 Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
 50 55 60  
 Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
 65 70 75 80  
 Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
 85 90 95  
 Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
 100 105 110

<210> 509  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 509  
  
 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
 20 25 30  
 Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Val Gly Met Ser Thr Tyr Gly Phe Asp Lys Trp Gly Gln Gly  
 100 105 110  
 Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
 115 120 125

Pro Leu Ala Pro  
130

<210> 510  
<211> 132  
<212> PRT  
<213> Homo sapiens

<400> 510

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Pro Tyr  
20 25 30

Trp Met Phe Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Val Ser Ser Gly Gly Met Thr Gly Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Gly Met Tyr Asn Tyr Gly Phe Asp Ile Trp Gly Gln Gly  
100 105 110

Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe  
115 120 125

Pro Leu Ala Pro  
130

<210> 511  
<211> 112  
<212> PRT  
<213> Homo sapiens

<400> 511

Gln Asp Ile Gln Met Thr Gln Ser Pro Leu Ser Leu Pro Val Thr Pro  
1 5 10 15

Gly Glu Pro Ala Ser Ile Ser Cys Lys Ser Ser Gln Ser Leu Leu His  
20 25 30

Ser Asn Gly Tyr Asn Tyr Leu Asp Trp Tyr Leu Gln Lys Pro Gly Gln  
35 40 45

Ser Pro Gln Leu Leu Ile Ser Leu Gly Ser Asn Arg Ala Ser Gly Val  
50 55 60

Pro Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys  
65 70 75 80

Ile Ser Arg Val Glu Ala Glu Asp Val Gly Val Tyr Tyr Cys Met Gln  
85 90 95

Ala Leu Gln Thr Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
100 105 110

<210> 512

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<223> Consensus amino acid sequence of the CDR3 regions of affinity  
matured clones of 807A-M0028-B02

<220>

<221> MISC\_FEATURE

<222> (1)..(1)

<223> X = S or G

<220>

<221> MISC\_FEATURE

<222> (2)..(2)

<223> X = V or I

<220>

<221> MISC\_FEATURE

<222> (4)..(4)

<223> X = L, H or F

<220>

<221> MISC\_FEATURE

<222> (6)..(6)

<223> X = Y, N or K

<400> 512

Xaa Xaa Leu Xaa Asp Xaa  
1 5

<210> 513

<211> 9

<212> PRT

<213> Artificial sequence

<220>

<223> Consensus amino acid sequence of the CDR3 regions of affinity  
matured clones of 807B-M0004-A03

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> X = A or S

<220>  
<221> MISC\_FEATURE  
<222> (5)..(5)  
<223> X = D, S or A

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> X = R or G

<220>  
<221> MISC\_FEATURE  
<222> (9)..(9)  
<223> X = Y, H or S

<400> 513

Ser Ile Ala Xaa Xaa Xaa Thr Asp Xaa  
1 5

<210> 514  
<211> 20  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Consensus amino acid sequence of the CDR3 regions of affinity  
matured clones of 807B-M0004-H03

<220>  
<221> MISC\_FEATURE  
<222> (1)..(1)  
<223> X = E or D

<220>  
<221> MISC\_FEATURE  
<222> (2)..(2)  
<223> X = G or R

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> X = A, S or V

<220>  
<221> MISC\_FEATURE  
<222> (5)..(5)  
<223> X = G, R or A

<220>  
<221> MISC\_FEATURE

<222> (7)..(7)  
 <223> X = V or F

<220>  
 <221> MISC\_FEATURE  
 <222> (9)..(9)  
 <223> X = G or A

<220>  
 <221> MISC\_FEATURE  
 <222> (10)..(10)  
 <223> X = P or R

<220>  
 <221> MISC\_FEATURE  
 <222> (11)..(11)  
 <223> X = A, P or R

<220>  
 <221> MISC\_FEATURE  
 <222> (13)..(13)  
 <223> X = Y or H

<220>  
 <221> MISC\_FEATURE  
 <222> (14)..(14)  
 <223> X = Y or F

<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> Xaa can be any naturally occurring amino acid

<220>  
 <221> MISC\_FEATURE  
 <222> (20)..(20)  
 <223> X = V, L or A

<400> 514

Xaa	Xaa	Ser	Xaa	Xaa	Val	Xaa	Lys	Xaa	Xaa	Xaa	Arg	Xaa	Xaa	Tyr	Tyr
1				5					10					15	
Tyr	Xaa	Asp	Xaa												
			20												

<210> 515  
 <211> 10  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <223> Consensus amino acid sequence of the CDR3 regions of affinity  
 matured clones of 807B-M0009-F06

<220>

<221> MISC\_FEATURE  
<222> (3)..(3)  
<223> X = M or I

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> X = S or A

<220>  
<221> MISC\_FEATURE  
<222> (5)..(5)  
<223> X = T or N

<220>  
<221> MISC\_FEATURE  
<222> (7)..(7)  
<223> X = A or G

<220>  
<221> MISC\_FEATURE  
<222> (10)..(10)  
<223> X = I, L, F or K

<400> 515

Val Gly Xaa Xaa Xaa Tyr Xaa Phe Asp Xaa  
1 5 10

<210> 516  
<211> 6  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Consensus amino acid sequence of the CDR3 regions of affinity  
matured clones of 807B-M0009-F06

<220>  
<221> MISC\_FEATURE  
<222> (2)..(2)  
<223> X = V or I

<220>  
<221> MISC\_FEATURE  
<222> (4)..(4)  
<223> X = L, H or F

<220>  
<221> MISC\_FEATURE  
<222> (6)..(6)  
<223> X = K, Y or N

<400> 516

Gly Xaa Leu Xaa Asp Xaa

1

5

<210> 517  
<211> 9  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Consensus amino acid sequence of the CDR3 regions of affinity  
matured clones of 807A-M0004-A03

<220>  
<221> MISC\_FEATURE  
<222> (4) .. (4)  
<223> X = S or A

<220>  
<221> MISC\_FEATURE  
<222> (5) .. (5)  
<223> X = S or A

<220>  
<221> MISC\_FEATURE  
<222> (6) .. (6)  
<223> X = R or G

<220>  
<221> MISC\_FEATURE  
<222> (9) .. (9)  
<223> X = H or Y

<400> 517

Ser Ile Ala Xaa Xaa Xaa Thr Asp Xaa  
1 5

<210> 518  
<211> 10  
<212> PRT  
<213> Artificial sequence

<220>  
<223> Amino acid sequence of the VL chains of the Germline-corrected  
antibodies

<400> 518

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
1 5 10

<210> 519  
<211> 107  
<212> PRT  
<213> Artificial sequence

<220>

<223> Amino acid sequence of the CL chains of the Germline-corrected antibodies

<400> 519

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu  
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe  
20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln  
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser  
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu  
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser  
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
100 105

<210> 520

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

<400> 520

Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys  
1 5 10

<210> 521

<211> 107

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the CL chains of the Germline-corrected antibodies

<400> 521

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu  
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe  
 20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln  
 35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser  
 50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu  
 65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser  
 85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
 100 105

<210> 522

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected antibodies

<400> 522

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 1 5 10

<210> 523

<211> 106

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the CL chains of the Germline-corrected antibodies

<400> 523

Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser  
 1 5 10 15

Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp  
 20 25 30

Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro  
 35 40 45

Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn  
 50 55 60

Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys  
65 70 75 80

Ser His Lys Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val  
85 90 95

Glu Lys Thr Val Ala Pro Thr Glu Cys Ser  
100 105

<210> 524

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected  
antibodies

<400> 524

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys  
1 5 10

<210> 525

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected  
antibodies

<400> 525

Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys  
1 5 10

<210> 526

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Amino acid sequence of the VL chains of the Germline-corrected  
antibodies

<400> 526

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
1 5 10

<210> 527

<211> 106  
 <212> PRT  
 <213> Artificial sequence  
  
 <220>  
 <223> Amino acid sequence of the CL chains of the Germline-corrected  
 antibodies  
  
 <400> 527  
  
 Gly Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser  
 1 5 10 15  
 Glu Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp  
 20 25 30  
 Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro  
 35 40 45  
 Val Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn  
 50 55 60  
 Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys  
 65 70 75 80  
 Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val  
 85 90 95  
 Glu Lys Thr Val Ala Pro Thr Glu Cys Ser  
 100 105